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Established
1843.

Telephone,
112 John.

CATALOGUE H

J. S. WOODHOUSE

Successor to
R. H. ALLEN CO.

MANUFACTURER OF AND DEALER IN

Agricultural Implements

FOR
DOMESTIC
AND
FOREIGN
TRADE.

Machinery, Tools
Fertilize
Contrac
Presses

IF INTERESTED WRITE
FOR OUR
CATALOGUE K
LATEST EDITION
MAILED FREE

No. 191 Water Street,

Four Doors below Fulton Street.

NEW YORK.

Telephone, 112 John. Cable Address, Monoculo, New York.

191 WATER STREET,
Between Fulton Street and Burling Slip.

New York, March 1, 1899.

I TAKE PLEASURE in presenting Catalogue H of Agricultural Implements, etc., which is enlarged from that of last issue, and now contains illustrations and prices of most of the leading Machines and Implements manufactured.

I shall continue to carry a full assortment suitable for the Domestic and Export Trade, and I am prepared to furnish all classes of goods in my line of business.

Thanking you for the kind patronage extended to me, I hope to merit a continuance of same by strict and careful attention to all orders.

Very respectfully,

J. S. WOODHOUSE.

Business Established at above Address, 1843.

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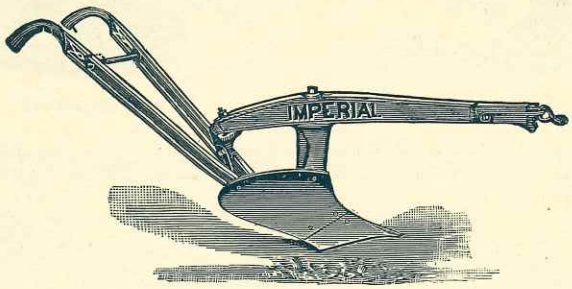
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

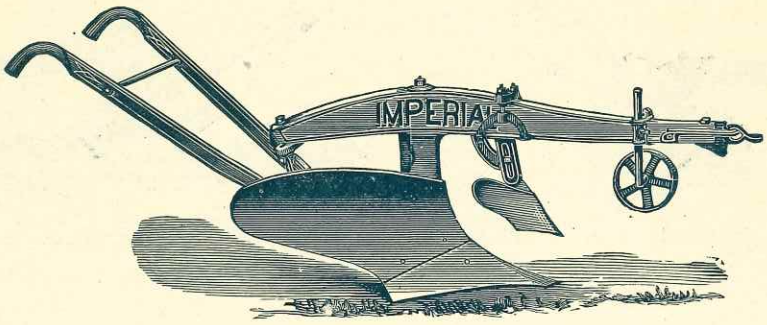
Imperial Chilled and Steel Plows.

The "Imperial Chilled" has no superior, and is the most durable, economical, and desirable plow the farmer can purchase, because it is made upon correct principles, of the best material, is a perfect implement of very light draft, easily handled, steady running, so boys can handle them. The Highest Premium was awarded the "Imperial" General Purpose and Hillside Plows at the "World's Columbian Exposition," 1893.

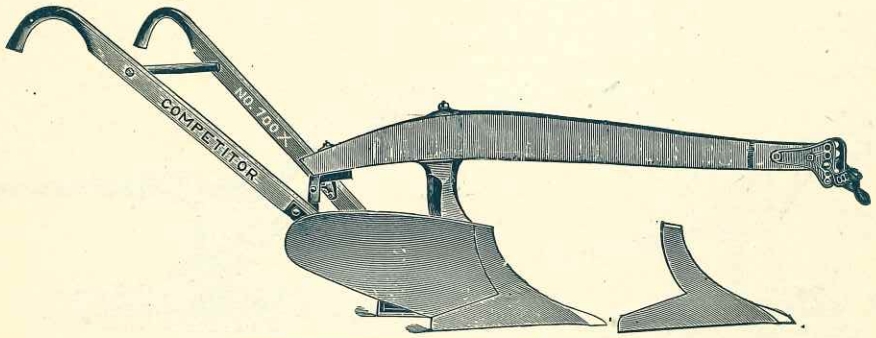


WOOD BEAM PLOWS.

No. 5.	One Horse Plow,	Light,	cuts 6 inches.	Price,	Chilled,	$5.00.....	No. C 5,	Steel,	$7.00
" 8.	" " "	Medium,	" 8 "	"	"	6.00.....	" C 8,	"	9.00
" 9.	" " "	Heavy,	" 9 "	"	"	7.50.....	" C 9,	"	10.00



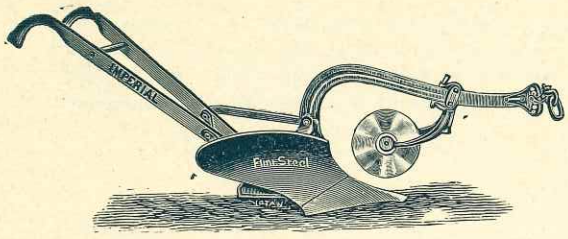
No.10.	Two Horse Plow,	Medium,	cuts 10 to 11 ins.	Price,	chilled,	$9.00.....	No. C10,	Steel,	$14.00
Junior	" " "	Heavy,	" 12 " 13 "	"	"	9.50.....	" C24,	"	15.50
Senior	Two or Three Horse Plow,		" 13 " 14 "	"	"	10.00.....	" C31,	"	16.00



THE "COMPETITOR," No. 700X.

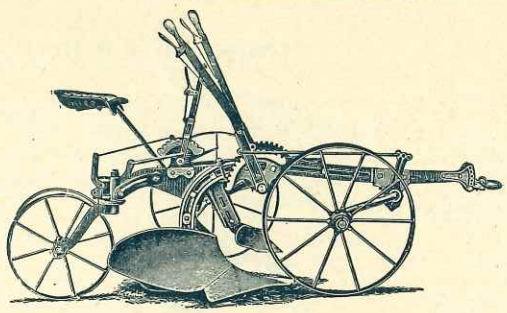
This is a Two Horse Chilled Plow, and cuts 11 inches. Has shin cutter share that renews the cutting edge of moldboard whenever a new share is put on. Price.....**$9.00**

For Plows with Wheel add $1.00; with Jointer, add $2.00; with Swing Coulter, add $2.00; with Rolling Coulter, add $3.00.



"Imperial" Steel Beam Plows.

No. 10½. With Chilled Mould, Land and Share..$10.00
" 11. Or Junior " " " " " .. 10.50
" 12. " Senior " " " " " .. 11.00
" C10½. All Steel.....15.00
" C11. " 16.50
" C12. " 17.00
With Wheel, add..... 1.00
" Jointer, " 2.00
" Swing Coulter, add..... 2.00
" Rolling Coulter, " 3.00

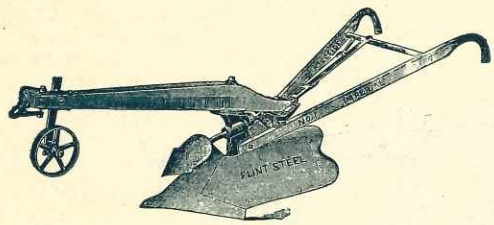


New "Imperial" Sulky Plow.

No. 12 Cuts, 13 or 14 inch.

Is made heavy, strong and durable, is adapted to hard-ground plowing for which it is absolutely necessary to have great strength, runs light, plows deep, and is easily manipulated. Weight, 500 lbs.

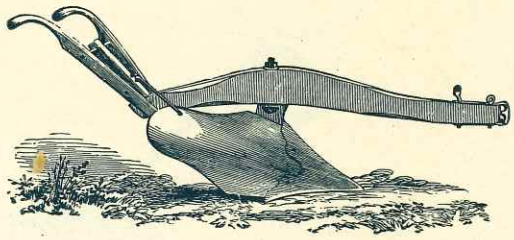
Chilled.....$34.00
Steel..... 38.00
For Triple Trees, add..... 3.00
" Pole and Yoke, add..... 3.00
" Swing Coulter " 2.00
" Rolling Coulter " 3.50
" Jointer " 2.00



"Imperial" Hillside or Swivel Plow.

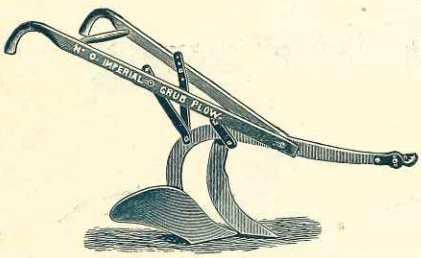
These Plows are made with Steel Mouldboard, Cast Share and Cast Landside, and cannot be beat for good work. The New Style Clevis Shifter is operated between handles, and the taking of land by plow, can be regulated while in operation. When turning Mouldboard at end of row, it automatically adjusts itself.

No. 3. One Horse Plow, Light, cuts 9 inches.....$9.50
" 2. " " " Heavy, " 10 " 10.50
" 1. Two " " —— " 12 " 11.00
For Plow with Wheel add..... 1.00
With Jointer, for No. 1 Plow only, add..... 2.00



Cast Side-Hill or Swivel Plows.

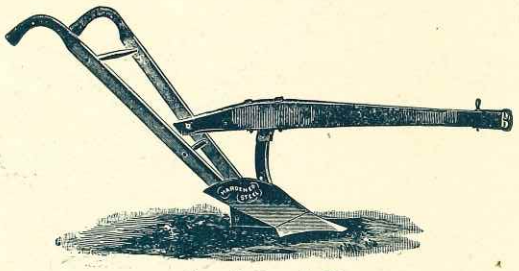
No.		Plain	For Wheel add	For Cutter add	For Draft Rod add
0	Light Horse..	$4.25	$1.00		
00	One "	5.25	1.00		
B1	Two "	7.00	1.00	$1.00	$1.25
A1½	Sod.....	7.75	1.00	1.00	1.25
A2	Sod.....	8.00	1.00	1.00	1.25
A3	" Large....	8.50	1.00	1.00	1.25
A4	Heavy Road..	9.00	1.00	1.00	1.25



All Steel Grub Plow.

For use in rough, rooty or new ground. Made with Steel Beam, Mould and Coulter. Handles adjustable, for height. A strong and serviceable implement.

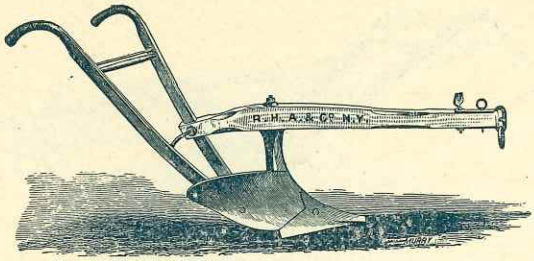
Price.....$10.00



"Gem" Steel Plow.

The above illustrates a series of low priced Wood Beam Steel Plows, made in three sizes, for the cultivation of Corn, Cotton and General Garden Truck.

One Horse, Light, 7 inch cut.....$4.00
" " " 8 " " 5.00
" " Heavy, 9 " " 5.75
For Wheel add $1.00, For Straight Coulter add 1.00

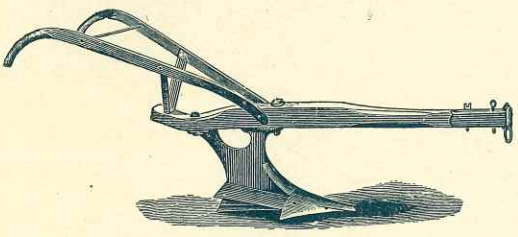


Eagle Series Cast Plows.

This is a general purpose Plow and a substitute where a cheaper grade of Plow is called for.

No. 18.	One Horse	Light	$3.30
" 18½.	"	Medium	3.50
" 19.	"	Large	3.80
" 19½.	Two Horse	Light	5.25
" 20.	"	Medium	6.25
" 21.	"	Large	6.75
" 22.	Three Horse		9.25

Add for Wheel, $1.00. Add for Coulter, $1.00

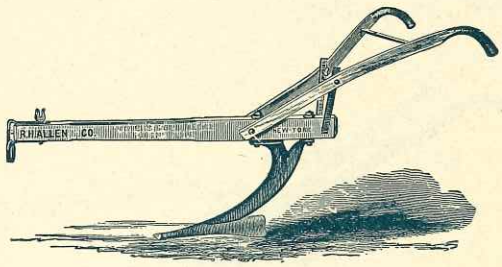


Cast Sub-Soil Plow.

No. 0.	One Horse	$5.00
" 1.	Heavy Horse	5.50
" 2.	Two Horse	6.50

Add for Wheel, $1.00. Add for Draft Rod, $1.50

We recommend Draft Rods with Sub-soil Plows.

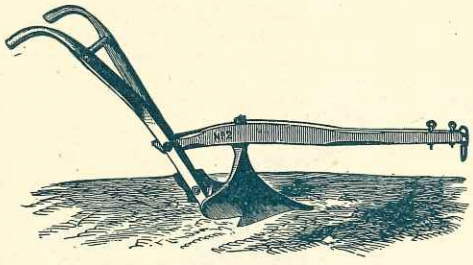


Patent Sub-Soil Plow.

The Standard of this Plow is knife shaped and the share narrow and pointed, which makes it an excellent worker in stiff soil.

No. 16.	1 Horse Plow, Sub-Soils to depth of	15 in.	$5.00
" 17.	2 " " " "	20 "	6.00

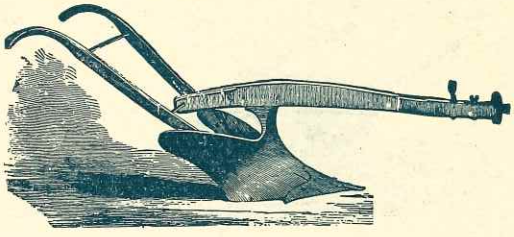
Add for Wheel, $1.00. Add for Draft Rod, 1.50



Cabbage Plow.

This is used in the cultivation of Cabbages and similar crops, the mouldboard being low makes it a useful implement for stirring the soil between the rows.

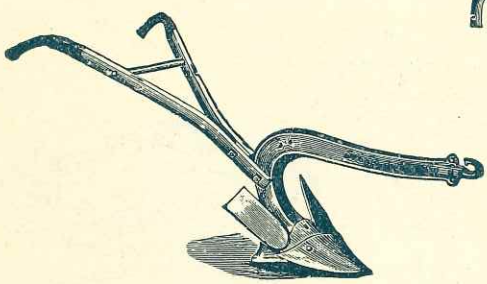
No. 1½.....$3.50. No. 2..... $3.90



Double-Mould Plow.

Is used for opening drills to plant Potatoes, Corn, etc., and for plowing out between narrow rows, throwing the earth both ways to the rows.

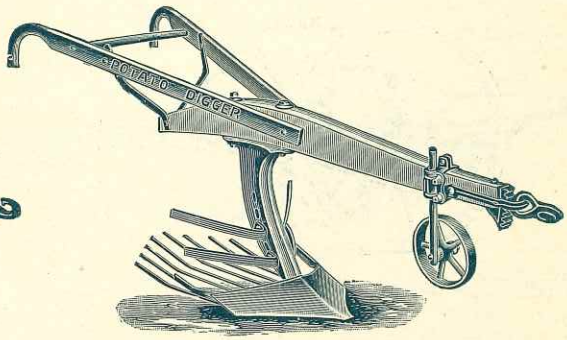
No. 1¼, $4.50. No. 1½, $5.00. No. 2, $6.00



Shovel and Ridging Plow.

This Plow is used for furrowing, covering, hilling and cultivating Corn, Carrots, Cabbages, Potatoes, etc. The wings can be adjusted to suit width of row. The point and wings are of steel.

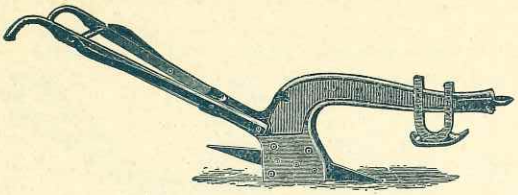
Price, $4.50. Potato Digging Attachment, $2.50



Imperial Potato Digging Plow.

The standard of this Plow is high, so as to allow of its working freely without clogging from weeds and potato vines, and is one of the best Potato Diggers yet invented.

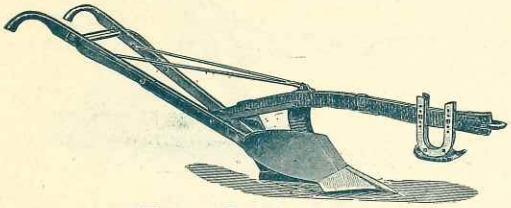
Price.....$10.00 With Wheel.....$11.00



Pavement Plow.

Suitable for Four or Six Horses. Has adjustable and Double Reversible Bar Steel Point. Especially adapted for tearing up cobble stone or Macadam pavements.

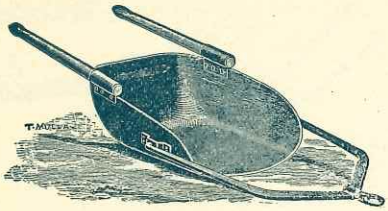
Weight, 255 lbs. Price $25.00



Truss Beam Plow.

Suitable for Four to Eight Horses. The Beam, Mould board and Landside are of steel. Heavy overlaid wrought Steel Point, adapted for severe grading purposes in shale or hard pan.

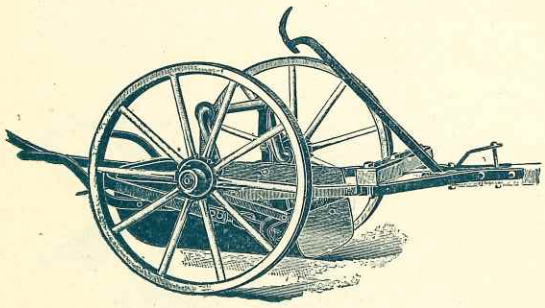
Weight, 265 lbs. Price.....$20.00



Solid Steel Scrapers, with Runners.

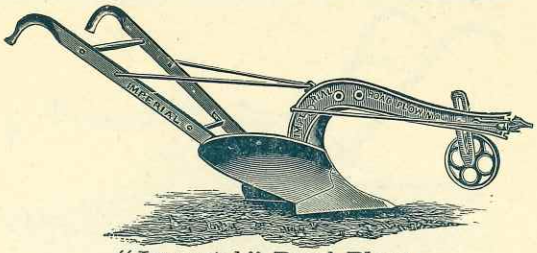
Pressed from one Piece of Steel.

No. 1, width, 32 in.; capacity, 7 ft.....$9.50
" 2, " 29 in.; " 5 ft..... 9.00
" 3, " 26 in.; " 3 ft,..... 8.50



Steel Scrapers, with Wide Tire Patent Iron Hub Wood Wheel.

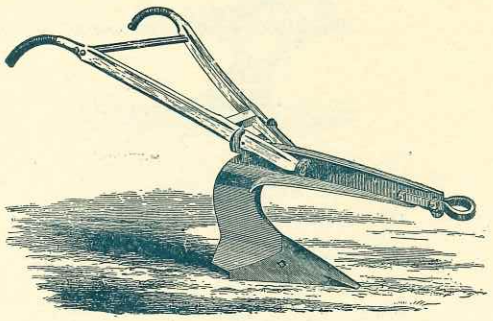
PRESSED BOWL.				SQUARE BOWL.			
No.				No.			
1.	10	cubic	ft..$33.00	1.	10	cubic	ft..$31.50
2.	13	"	".. 47.00	2.	12	"	".. 43.50
3.	17	"	".. 52.00	3.	16	"	".. 48.50



"Imperial" Road Plow.

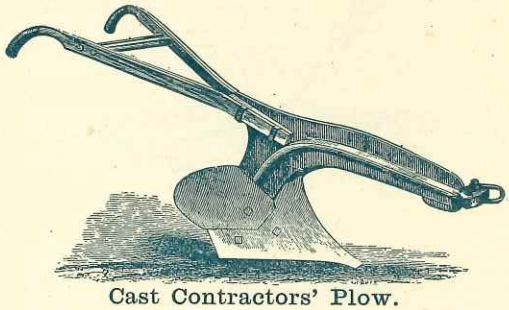
Suitable for two or Four Horses. Has Chilled Wearing Parts. Thoroughly braced. Weight, 175 lbs.

Price with Cast Point, $14.00 with Wheel, $15.00
" " Steel " 16.50 " " 17.50



Cast Grading Plow.

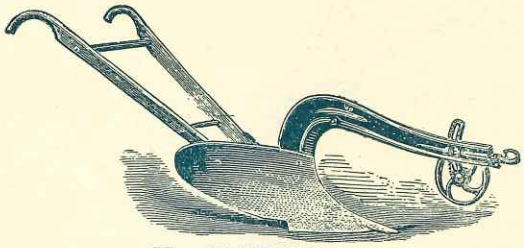
Suitable for Two Horses. For Light Grading and Road Work. Weight, 135 lbs, Price, $9.00.



Cast Contractors' Plow.

Suitable for Two to Six Horses. This is an Extra Heavy Cast Plow for all purposes of Grading and Excavating. Weight, 200 lbs.

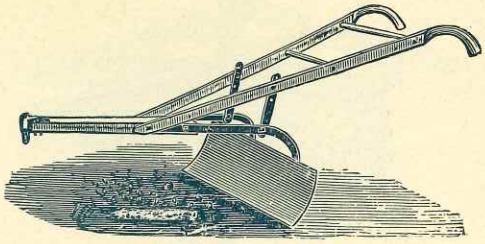
Price .....$12.00.



No. 2½ D. Plow.

Suitable for Two Horses. Is a strong iron beam, low priced plow for general use. Weight, 100 lbs. Price, Cast...$4.75. Chilled...$6.00.

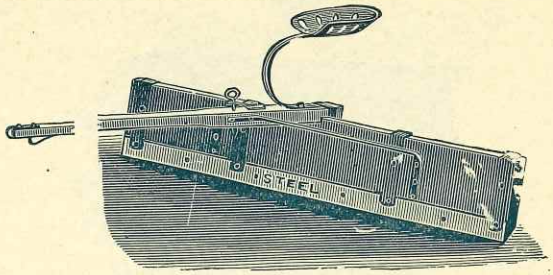
Add for wheel, $1.00, for straght coulter $1.00 for Jointer, $2.00.



Surface Grader.

The Steel Blade measures 30 in. long by 15 in. wide, and is used for removing the plowed ground from the sides of the road. Weight, 60 lbs.

Price.....$8.00

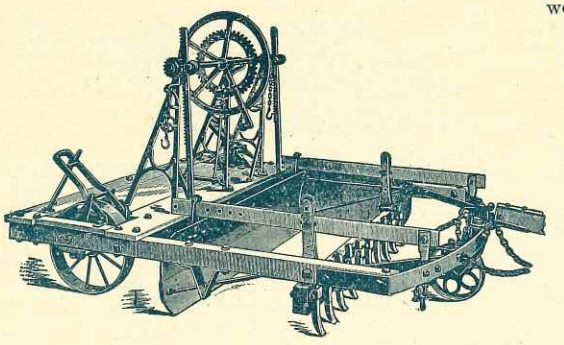


Road Leveler.

For smoothing rough roads of any kind, dirt or gravel.

The Steel Blade measures 4 x 72 inches, bolted to wood frame. Weight, 150 lbs.

Price.....12.00

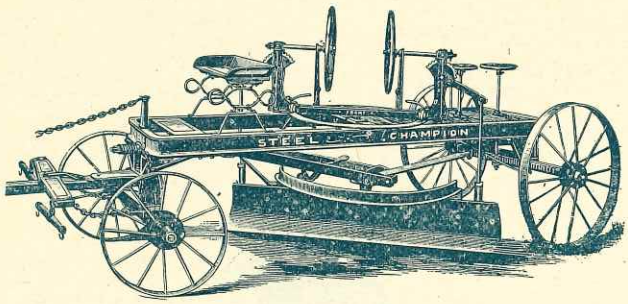


Patent Grader with Digger Attachment.

This machine is designed for cutting and spreading earth to accurate grade, and is of special value to the farmer for levelling rough land, for surfacing fields which are to be seeded down.

It is made in two styles, one of which has an attachment for digging up earth in front of the blade, which enables it to work the hardest clay surfaces, (the illustration shows the blade and digger in action together.) This feature makes it very efficient for use on country roads, and for finishing work on parks, boulevards, racetracks, etc. The extent to which this machine successfully displaces hand labor, with pick and shovel in grading on hard surfaces, renders it an implement of unusual economic value to contractors. A circular fully illustrating and describing the machine will be sent on application.

Price, No. 2 Machine, as illustrated, complete with digger attachment, Triple Trees and Neck Yoke, $80.00
" No. 1 Machine without digger attachment or Triple Trees, etc., for Farmers and Irrigators.... 45.00



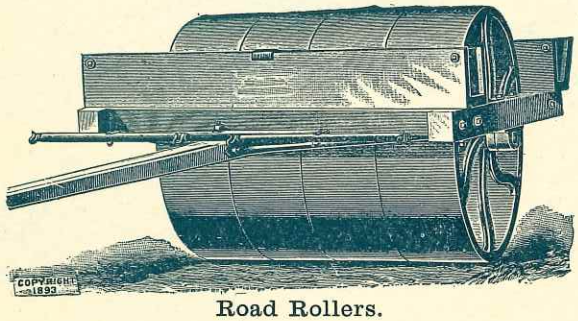
The Champion Steel Reversible Road Machine.

The "Steel Champion" is a matchless Road Grader—strong, durable, capable, thoroughly convenient and perfect in its work, and is claimed to be the lightest draft, reversible machine on the market.

It is constructed almost entirely of steel and malleable iron of the best quality, has an 8 foot Blade, which is adjusted into position by the Screw Hand Wheel Levers, making it one of the easiest machines to operate.

Price.....$235.00

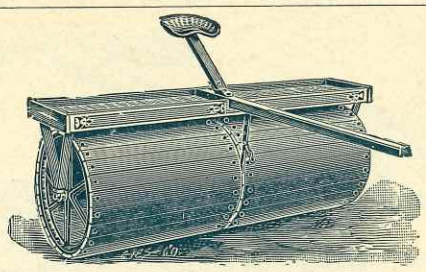
The following list comprises the principal sizes of our Road and Township Rollers. They are strongly constructed, have steel shafts running in heavy journal boxes with weight boxes front and rear. All are furnished with Pole and Whiffletrees.



Road Rollers.

Number of Sections.	Width of Section.	Diam. of Section.	Total Face of Roller.	Weight About.	Price.
4	12 ins.	36 ins.	48 ins.	2200 lbs.	$110.00
4	12 "	36 "	48 "	3000 "	150.00
5	12 "	36 "	60 "	3100 "	155.00
6	12 "	36 "	72 "	3900 "	195.00
4	16 "	36 "	64 "	4000 "	200.00
3	15 "	48 "	45 "	4100 "	205.00
4	15 "	48 "	60 "	5400 "	270.00
5	15 "	48 "	75 "	7200 "	360.00

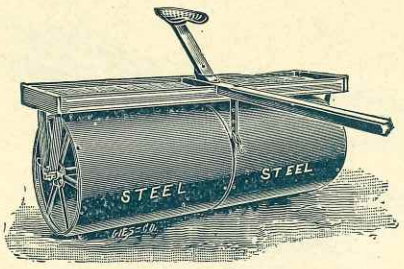
Scrapers for either Size of Roller, add $6.00.
Heavier Rollers made to order up to 10,000 lbs.



Improved Oak Stave Roller.

The drums of this Roller are covered with two-inch white oak, bolted to heavy cast rims upon the heads,

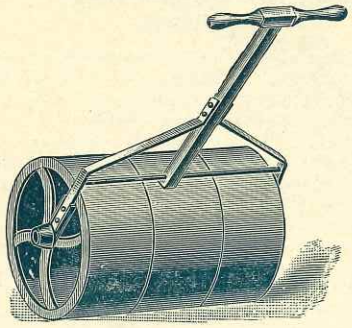
DIAM.	LENGTH.	WEIGHT.	PRICE.
28 in.	7 ft. 6 in.	about 800 lb.	$26.00
33 "	7 " 6 "	" 875 "	30.00



Improved Steel Land Roller.

This Roller is made entirely of steel. The drums are covered with heavy steel plates, riveted securely to the wrought steel heads.

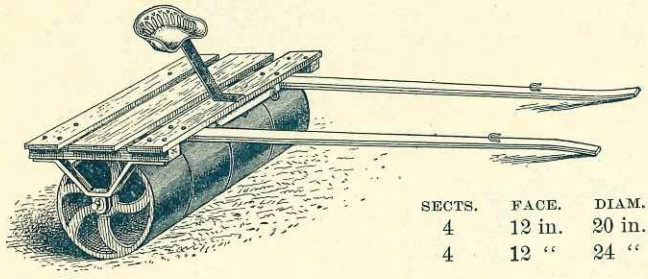
DIAM.	LENGTH.	WEIGHT.	PRICE.
26 in.	7 ft. 6 in.	about 750 lb.	$35.00
30 "	7 " 6 "	" 850 "	42.00



Lawn and Garden Roller.

This new pattern Roller is made with our improved Wood Handle strongly braced, having counterpoise balance weights on shaft for holding the handle up when the Roller is not in use.

	LENGTH OF ROLLERS.	WEIGHT ABOUT.	PRICE.
2 Sections 7½ in. Face x 15 in. Diam.	15 in.	125 lbs.	$6.00
2 " 8 " " 20 " "	16 "	225 "	9.50
1 " 20 " " 20 " "	20 "	250 "	10.50
3 " 8 " " 20 " "	24 "	300 "	12.50
3 " 8 " " 24 " "	24 "	400 "	16.50
3 " 8 " " 28 " "	24 "	500 "	20.50

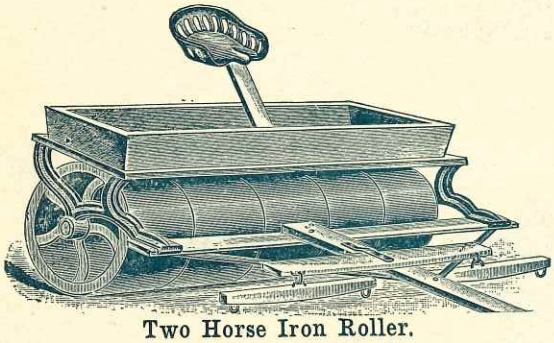


One Horse Iron Roller.

This cut illustrates our latest improved iron Roller, suitable for Lawns and Walks.

With seat and whiffle tree.

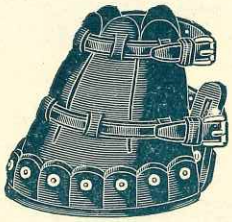
SECTS.	FACE.	DIAM.	TOTAL LENGTH.	WEIGHT.	PRICE.
4	12 in.	20 in.	4 ft.	about 650 lbs.	$35.00
4	12 "	24 "	4 "	" 800 "	42.00



Two Horse Iron Roller.

SECTS.	DIAM.	FACE.	TOTAL LENGTH.	WEIGHT	PRICE.
4	20 in.	12 in.	4 ft.	about 850 lbs.	$45.00
5	20 "	12 "	5 "	" 1000 "	50.00
4	24 "	12 "	4 "	" 1100 "	55.00
5	24 "	12 "	5 "	" 1250 "	60.00

Scrapers, $6.00 extra.



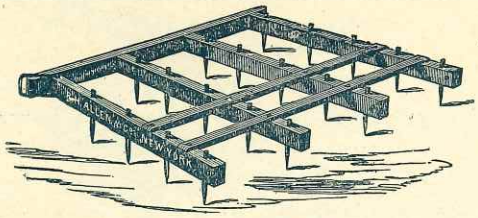
Horse Lawn Boots.

Regular size,
per set.....$8.00
Large size,
per set..... 9.00

The sizes of Rollers enumerated comprise the regular series. This cut shows with pole for two horses, but the lighter sizes can be fitted with shafts for one horse when so desired.

SECTS.	DIAM.	FACE.	TOTAL LENGTH.	WEIGHT.	PRICE.
6 ft.	24 in.	12 in.	6 ft.	about 1500 lbs.	$70.00
4 "	28 "	12 "	4 "	" 1150 "	60.00
5 "	28 "	12 "	5 "	" 1400 "	70.00
6 "	28 "	12 "	6 "	" 1600 "	80.00

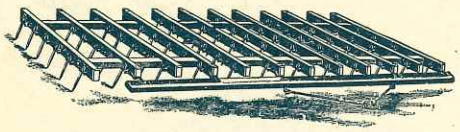
Whiffle Trees and Neck Yoke, 3.00 extra.



Square Harrow.

The above is a simple and strong Harrow and the cheapest on the list.

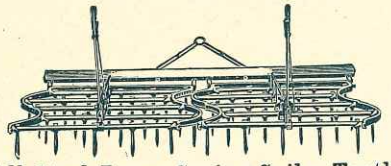
For One Horse, with 15 teeth to drive.....$6.00
" " " Heavy, with 19 teeth to drive, 7.00
" Two " —— " 23 " " 8.00



Wood Frame Reversible Smoothing Harrow.

This Harrow is made in sections having 24 teeth each, and so constructed that the teeth draw from one side of the Harrow straight, and from the other side slanting, as shown in cut.

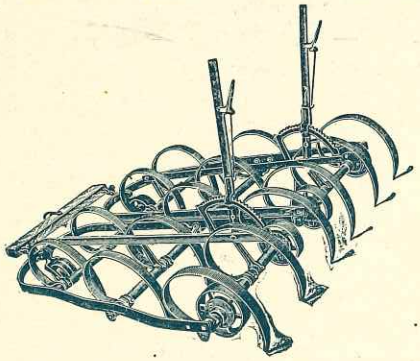
2 Sections with 48 teeth.....$11.00
3 " " 72 " (illustrated)..... 16.50



All Steel Lever Spring Spike Tooth Harrow.

The only Harrow having *spring action* upon *spike teeth.* This spring allows the teeth to yield in meeting an obstruction, thus saving strain or breakage.

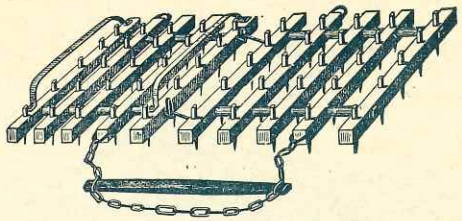
With 25 Teeth in One Section, spreading 4 ft. $7.50
" 50 " Two " " 8 " 13.50
" 75 " Three " " 12 " 20.00



Imperial Spring Tooth Harrow.

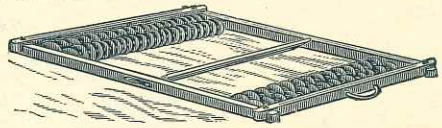
All Steel and Malleable Iron. Teeth of finest spring steel. Frame elevated on wheels as per cut. Can furnish runners instead of wheels, if so desired.

With 17 Teeth with Runners.....$15.00
" " " " Wheels..... 16.00
" " " " " and Seat..... 17.50



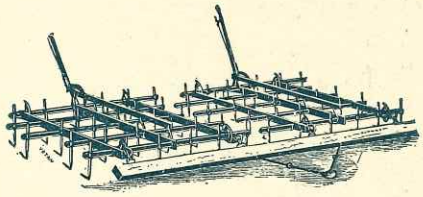
Hinge Harrow, with Runners.

This Harrow has 40 teeth, made in two sections joined together. Price.....$10.00



Steel Disc Smoothing Harrow.

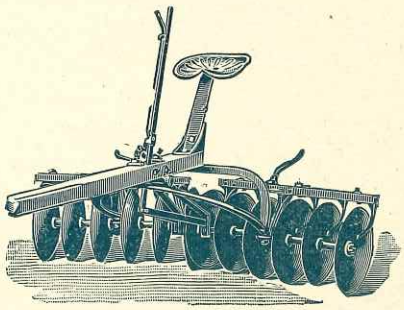
The frame measures 6 ft. 8 in. by 6 ft., and has 4 sets of rollers, having 58 discs, 8 in. diam. on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price.....$20.00



Imperial Steel Bar Harrow.

The sections are easily detached and can be used separately when desired; they are fitted with a lever, by means of which the pitch of the teeth can be instantly changed.

With 30 Teeth in One Section, spreading 5 ft. $7.00
" 50 " Two " " 8½ " 12.00
" 60 " Two " " 10 " 13.00
" 90 " Three " " 15 " 21.00

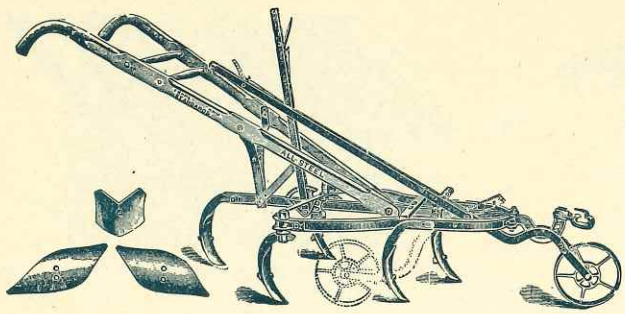


All Steel, Flexible Disc Harrow.

The only Disc Harrow having *independent adjustable spring pressure* upon the inner end of each gang of discs, allowing any amount of pressure to be thrown upon the inner ends of the gangs by the foot of the operator.

The scrapers are held at any point, by means of spring pressure upon the sliding bars.

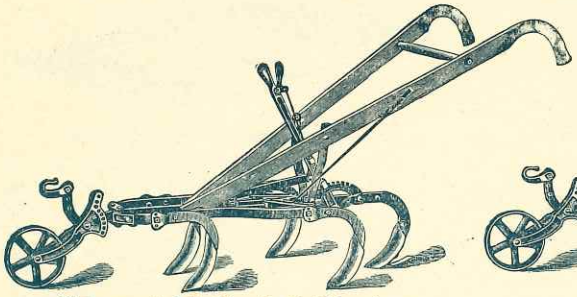
No. 3. Has 12, 16 in. Discs, cuts 6 ft.....$24.00
No. 0. 1 Horse, has 6, 16 in. Discs, cuts 3 ft. 19.00



"Queen" Steel Cultivator and Horse Hoe.

This is a strictly high-grade, up-to-date production. It has the adjusting lever, wheel lever, pivoting and adjusting shovels and hillers. Pivoted wheel standard that swings back under frame for transporting cultivator.

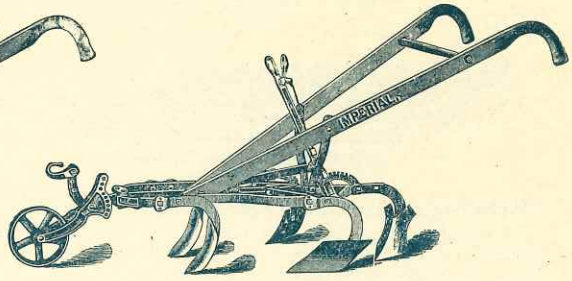
Price, as illustrated.....$7.00



"Imperial" Steel Cultivator.

This cut shows the implement rigged with teeth and wheel as a Cultivator and with the lever expanding attachment, by which the width may be changed from 9 inches to over 2 feet.

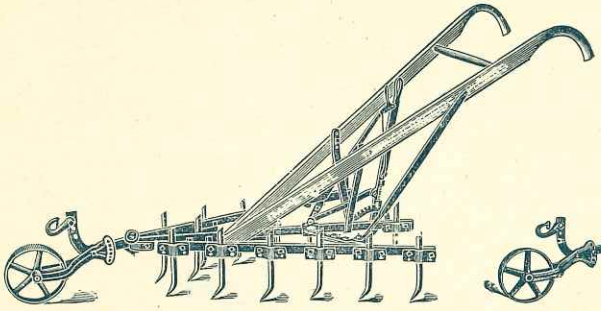
Price, as illustrated.....$4.00
" without Lever 3.50
" Celery Hilling Attachm't... 1.75
" Potato " " 1.50



"Imperial" Steel Cultivator and Horse Hoe.

This is similar to the cultivator, but in addition to the cultivating teeth it has also Horse Hoe Attachments.

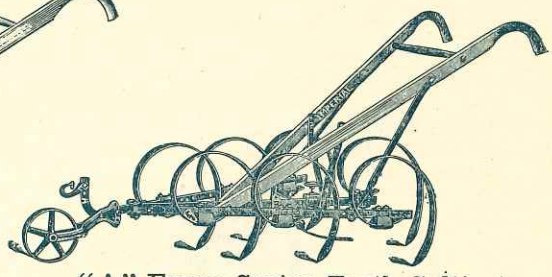
Price, as illustrated.....$5.00
" without Lever..... 4.50
" Celery Hilling Attachm't... 1.75
" Potato " " ... 1.50



Steel Spike Tooth Cultivator.

This is a good field cultivator, and superb garden harrow and pulverizer. The teeth can be given any slant desired, and are reversible, giving double wear.

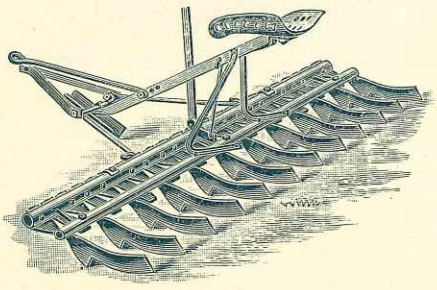
Price. as illustrated.....$4.50
" without Lever..... 4.00
" " " and Wheel..... 3.50



"A" Frame Spring Tooth Cultivator.

The frame is adjustable in width from 19½ to 35 ins. For use in Rough or ordinary Land, and for the Cultivating of Orchards, Vinyards, Corn and similar work.

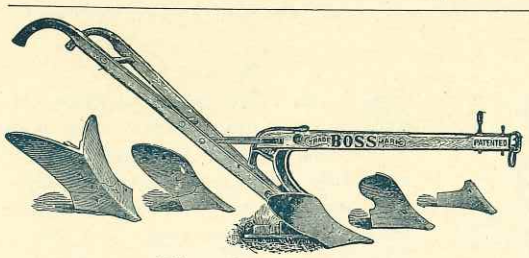
Price, with 7 Teeth.....$8.00



Acme Pulverizing Harrow.

No. 17. For Two Horses, has 12 Coulters,

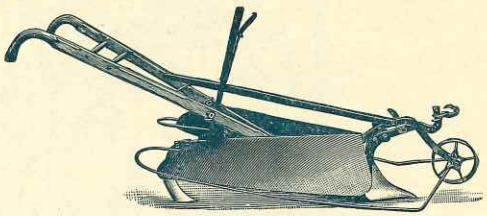
as illustrated. Cuts 6½ ft.....$15.00



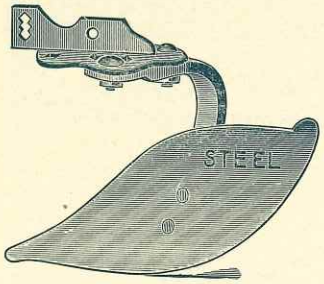
The "Boss" Plow.

This is a one horse plow with various adjustable plowing parts, which adapts it to the purpose of four different styles at about the price of one.

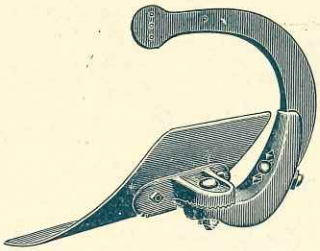
It can be worked as a medium and large horse turning plow, also as a plow for working among cabbage, strawberries, &c. Price $5.00; and with the double mould and share for furrowing, tilling, &c. Price, $6.50.



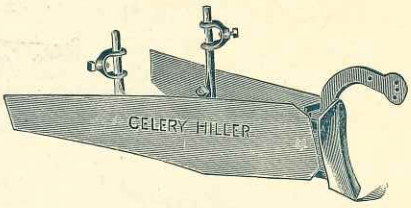
Planet, Jr. Double Celery Hiller.....$11.00
" **Single** " " 9.50



Horse Hoe, Top Adjustment.

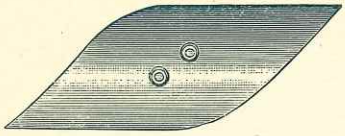


Horse Hoe, Serrated Adjus't.

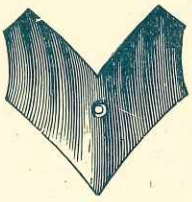


Attachments for Imperial Horse Hoe.

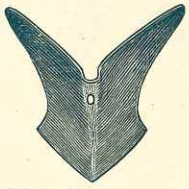
Celery Hiller.....$1.75
Potato " 1.50



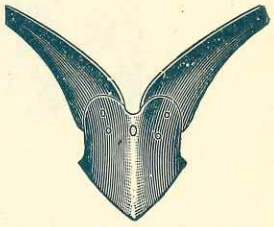
Side Steels, per pair, $1.00



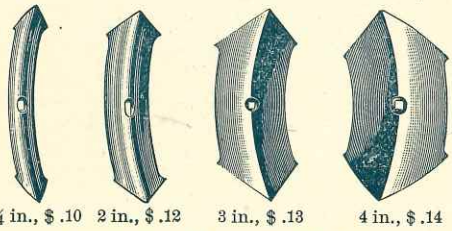
7 in. Shovel Steel, $ .25



10 in. Furrower, $ .80

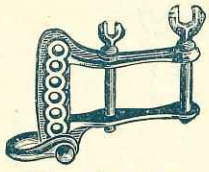


20 in. Furrower with Wings, $1.75



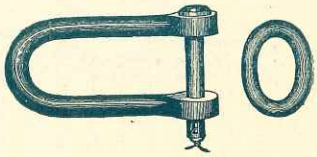
1¼ in., $ .10 2 in., $ .12 3 in., $ .13 4 in., $ .14

Cultivator Teeth With Bolts.



Plow Clevises.

6½ in. x 2¼ in.....$ .20
7½ " x 2½ "..... .25
8½ " x 2¾ "..... .30



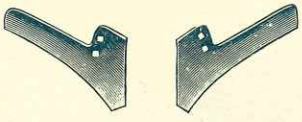
Evener Clevises.

4½ in. x 2 in.....$ .12
6 in. x 2½ in..... .25

Rings. $ .06

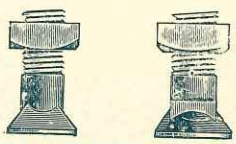
Steel Sweeps.

10 in.....$.35 each.
12 in..... .40 "
15 in..... .45 "



Hoe Steels.

6 in., per pair.....$ .80
10 in., " 1.00

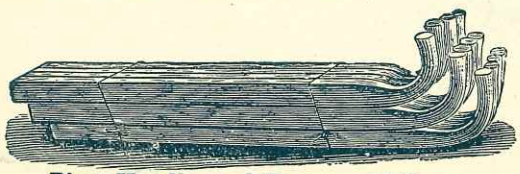


Plow & Cultivator Bolts.

Round and Square Heads all sizes.

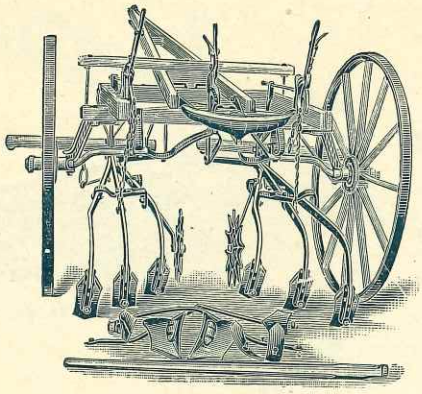
Steel Harrow Teeth.

¼ in.....$ .05 each
⅝ " ..... .06 "
¾ " ..... .11 "
⅞ " ..... .14 "



Plow Handles and Beams, All Sizes.

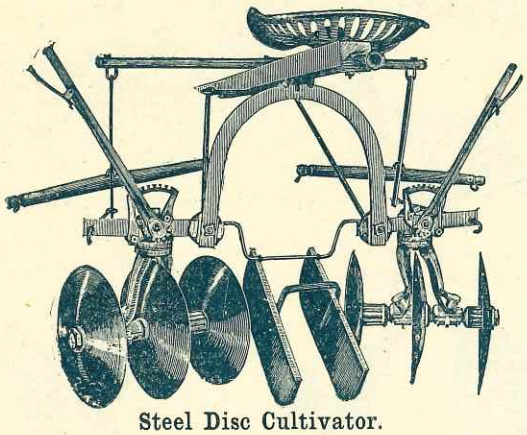
Knife Guards and Sections for All Mowers.



Sulky Cultivator.

One of the Latest Improved Riding and Walking Cultivators made. Each beam or drag-bar beam has a separate lever by which they can be raised independently of each other, with it the shovels can be made to run to any depth and can be changed in a moment. The machine is built of steel and malleable iron, making it strong and durable.

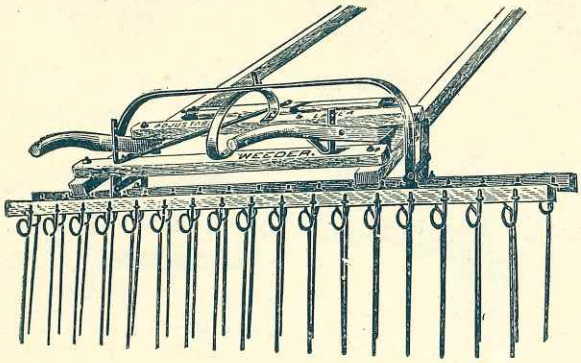
Price.....$32.00



Steel Disc Cultivator.

The discs can be adjusted to any angle desired, and be set by lever so as to throw the soil toward or from the row; can be set so as to cut deep in centre and shallow next the row, or the reverse, or level, and can be adjusted to any width. Corn, Potatoes, or any other rowed crop, can be hilled thoroughly as with the hoe and will effectually cut up and bury the weeds.

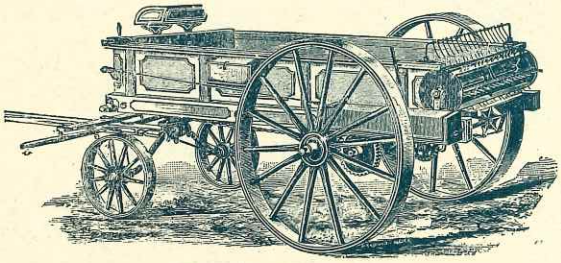
Price, with 3 16-inch Discs on each side.....$26.00



New Adjustable Weeder.

This Weeder is 7½ ft. wide and contains 35 Teeth, made of the best Spring Steel, Oil Tempered. The handles are adjustable and may be raised or lowered as desired. It differs materially from all others in having a Lever Adjustment, that by simply turning a Handle Nut, the Teeth can be instantly adjusted from a vertical position to any inclination desired, without stopping the horse, if necessary. By using this Weeder, fields of corn, beans, potatoes, in fact, all kinds of vegetables can be kept clean of weeds without damage to the plants.

Price.....$10.00

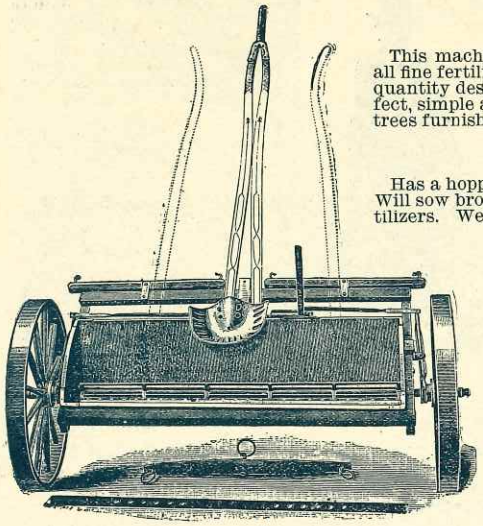


Manure Spreader

Best Manure Spreader Made. It picks the material finely to pieces and scatters it uniformly over the land, broadcast or in drills as fast as the team moves along, nearly doubling the value of the manure by pulverizing and evenly spreading.

Size 1 on 4 wheels, capacity 30 bushels...$100.00
" 2 " " " 40 " ... 105.00
" 3 " " " 50 " ... 110.00
Drill attachment for leaving manure in rows (extra)..... 8.00
Wind Brake or Lime Hood (extra)..... 5.00
Slow Feed for Lime, Ashes, Cotton Seed etc. (extra)..... 1.50

Two-Horse Whiffle trees, neck yoke and evener, furnished with each machine.

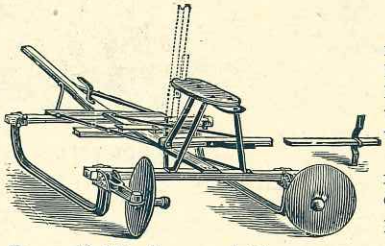


Stevens Fertilizer Distributor.

This machine in addition to Plaster will sow Bonedust, Ashes, Lime and all fine fertilizers. It broadcasts evenly to a width of 5 feet 10 inches any quantity desired from 200 lbs. to 4000 lbs. per acre. The adjustment is perfect, simple and strong. Combined Pole and Shafts, Neck-yoke and Whiffletrees furnished with each machine. Price.....$45.00

Stevens Hand Fertilizer Sower.

Has a hopper 34 ins. long and holds 1½ bushels. Mounted on two wheels. Will sow broadcast all kinds of Lawn Dressing and other commercial fertilizers. Weight, 83 lbs. Price.....$12.00

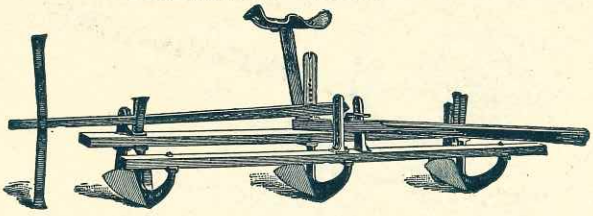


Opens Furrows, Double Furrows or Ridges. Cultivates or Plows to and from.

Is strong, light running, and durable.

Price.....$20.00

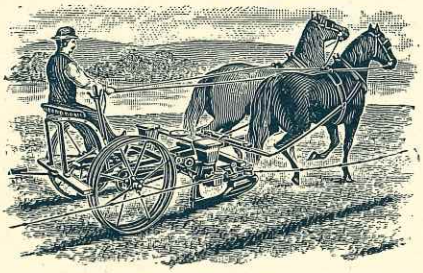
Darnell Marker and Furrower.



Corn Marker.

This cut shows our Steel Wing Marker. The runners are long which enables it to make a true and even mark, and cannot be thrown out by stiff sod or stone. It is adjustable to mark any width row and to any depth desired.

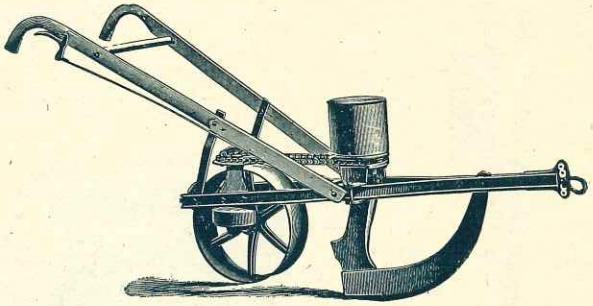
3 Row Marker, for 2 horses, as illustrated.....$10.00



Two Row Corn Planter.

This machine is of light draft and easily handled in every way. With Check Rower it is used for planting in hills, and by simply adjusting the Valve and detaching the Rower Wire it can be used for planting in drills.

Price, plain.....$36.00
" with Check Rower and 80 rods of wire, 42.00
" Fertilizer attachment add 15.00

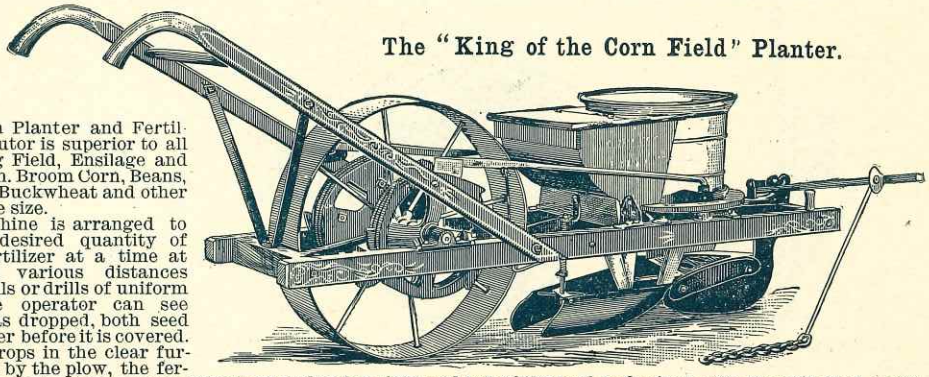


One Row Corn Planter.

This Planter, with the exception of handles, is built entirely of steel, is simple in construction, and easy to operate. In addition to Corn, it will plant almost any kind of seed by the adjustment of the proper plates which are quickly changed.

Price, $14.00, with Fertilizer attachment, $20.00.

The "King of the Corn Field" Planter.



This Corn Planter and Fertilizer Distributor is superior to all for planting Field, Ensilage and Fodder Corn. Broom Corn, Beans, Peas, Beet, Buckwheat and other seeds of like size.

This Machine is arranged to drop any desired quantity of seed or fertilizer at a time at equal and various distances apart, in hills or drills of uniform depth. The operator can see every hill as dropped, both seed and fertilizer before it is covered. The seed drops in the clear furrow opened by the plow, the fertilizer drops at the same instant separately and to the right and left of the seed and mixes with the soil, thus avoiding all dangers of injury to seed.

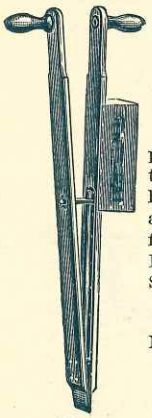
When planting in hills the regular size has a 24 inch wheel, which plants 4½, 9, 18, 36 and 72 inches apart. We can also furnish this Planter with a 20 inch wheel, which plants 7½, 15, 30 and 60 inches apart.

Price for either Machine.....$25.00

Hand Potato Planter.

Price.....$1.50

Adjust the gauge on front jaw to plant the required depth. Drop a single potato, or pieces sufficient for a single hill, into the tube. The lock will prevent their dropping through. Sink the beak of the planter into the soil until the gauge strikes the ground. Where the ground is hard, press down by placing the foot—left or right, as most convenient—upon the pressure bar. Now rock the top of the planter forward on the gauge. This will open the jaws, and the potato will drop into the cavity thus made. Continue the forward rocking motion as the planter is withdrawn from the ground.

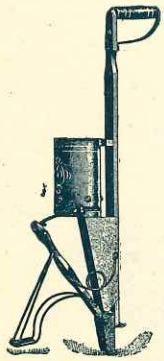


No. 1.

Hand Corn Planters.

No. 1 is a plain Planter. No. 2 having an attachment for sowing Pumpkin Seed.

	Price, each.
No. 1...	$1.15
" 2...	1.75



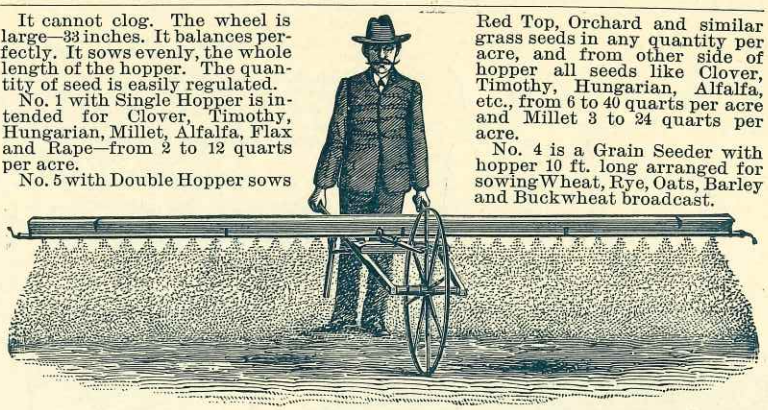
"Imperial" Corn Planter. Price, $2.00

It cannot clog. The wheel is large—33 inches. It balances perfectly. It sows evenly, the whole length of the hopper. The quantity of seed is easily regulated.

No. 1 with Single Hopper is intended for Clover, Timothy, Hungarian, Millet, Alfalfa, Flax and Rape—from 2 to 12 quarts per acre.

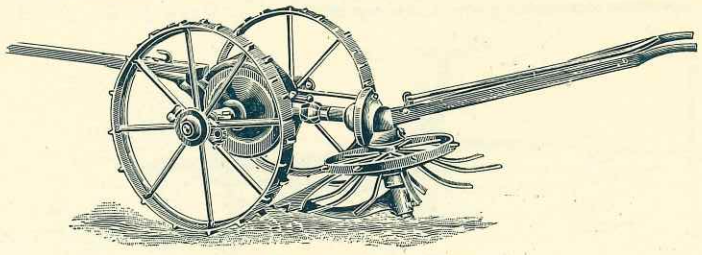
No. 5 with Double Hopper sows Red Top, Orchard and similar grass seeds in any quantity per acre, and from other side of hopper all seeds like Clover, Timothy, Hungarian, Alfalfa, etc., from 6 to 40 quarts per acre and Millet 3 to 24 quarts per acre.

No. 4 is a Grain Seeder with hopper 10 ft. long arranged for sowing Wheat, Rye, Oats, Barley and Buckwheat broadcast.



Thompson's Original Wheel Barrow Grass Seeder.

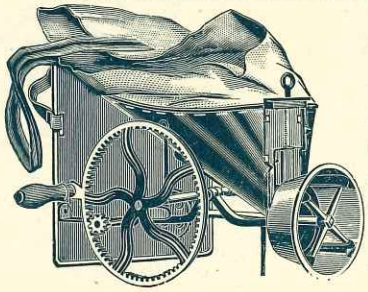
No. 1.	With 14 ft. Single Hopper	$10.50
" 5.	" 14 ft. Double Hopper	13.00
" 4.	Grain Seeder, Complete	11.00
" 4.	Grain Hopper only	5.00



The "Boss" Potato Digger.

This Machine has been throughly tested in all kinds of soil, and under all conditions, and pronounced the BOSS OF ALL DIGGERS, and to-day is in use by the best potato raisers in the country. It weighs about 500 pounds and is easily handled by TWO HORSES. It is so adjusted that the operator can dig every row and deliver them on one side of the field, making them easy to pick up. It will dig on uneven surface and on side hill as well as on the level making a complete separation of the tubers from the soil and weeds. It is made strong and durable and will do good work on stony ground.

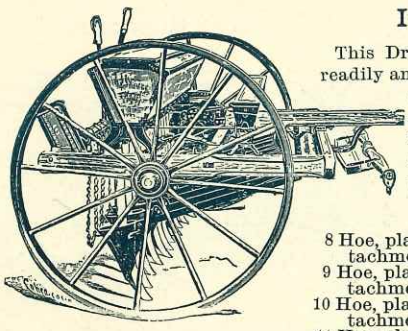
Price.....$60.00



Cahoon's Broadcast Seed Sower.

This machine will sow Wheat, Rye, Oats, Barley, Hemp, Timothy, Clover, Millet and Hungarian Seed, throwing from eight to twenty feet on each side of the operator.

Price.....$3.75



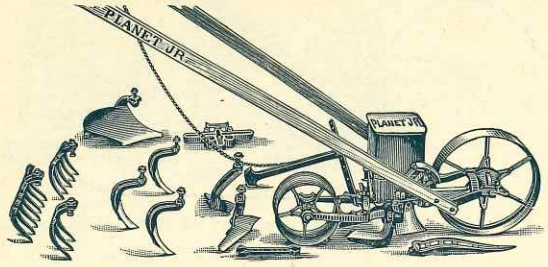
Improved Grain Drill.

This Drill has the perfected appliances to readily and accurately gauge for any amount of seed per acre, and is capable of sowing all coarse grain and all fine seed sown by farmers, from corn and peas down to clover, timothy, and other grass seeds.

PRICES:

8 Hoe, plain, $70.00; with fertilizer attachment	$100.00
9 Hoe, plain, $75.00; with fertilizer attachment	105.00
10 Hoe, plain, $80.00; with fertilizer attachment	110.00
11 Hoe, plain, $85.00; with fertilizer attachment	115.00

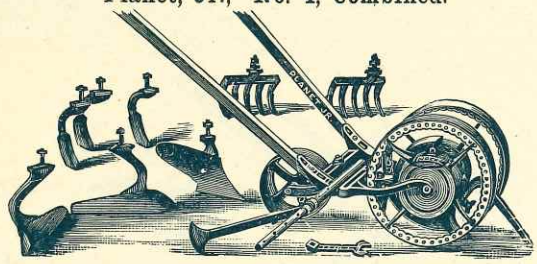
"Planet, Jr.," Seed Drills and Cultivators.



"Planet, Jr.," No. 4, Combined.

No. 4 is a Hill Dropping Seed Drill, Hoe, Cultivator, Rake and Plow combined. Holds 2 quarts and sows all garden and field seeds continuously, or drops in neat hills either 4, 6, 8, 12 or 24 inches apart. The attachments comprise 1 Plow, 2 Hoes, 3 Cultivating Teeth, 3 Rakes and 1 Leaf Guard.

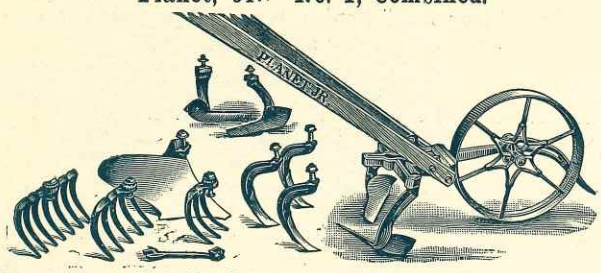
	Price Net.
"Planet, Jr.," No. 4, as illustrated	$10.00
" " 4, Drill only	7.00
" " 3, Hill Dropping Drill	9.00
"Planet, Jr.," No. 5, Market Gardeners Hill Dropping Seed Drill	12.00



"Planet, Jr.," No. 1, Combined.

This is a combined Drill and Wheel Hoe, Cultivator, Rake and Plow, and well known as a perfect seed sower and excellent cultivator and weeder. The attachments comprise 1 Plow, 2 Hoes, 2 Rakes and 3 Cultivating Teeth.

Price.....Net, $9.00
"Planet, Jr." No. 2, Drill only " 6.50



No. 15. Single Wheel Hoe, Cultivator, Rake and Plow.

No. 15 has an 11 inch wheel with broad face, the frame changes in height and the wheel to either side of frame; the equipment consists of 1 Leaf Guard, 1 Plow, 2 pair Hoes, 1½ pair Cultivating Teeth, 1½ pair Rakes.

Price.....Net, $6.00

No. 16 is identical with No. 15, but has fewer tools, which consists of 1 Leaf Guard, 1 Plow, 1 pair Hoes, 1 pair Rakes, 1½ pair Cultivating Teeth.

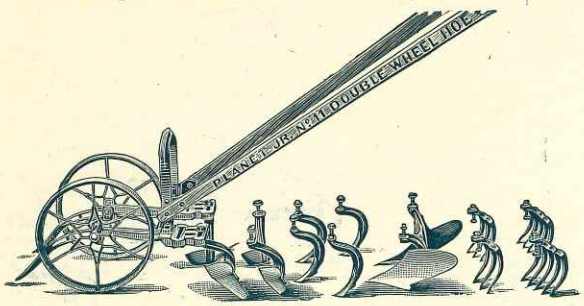
Price.....Net, $5.00

No. 17 has 1 Plow, 1 pair Hoes, 1½ pair Cultivating Teeth.

Price.....Net, $4.00

No. 18 has 1 pair 6 inch Hoes only.

Price.....Net, $3.00



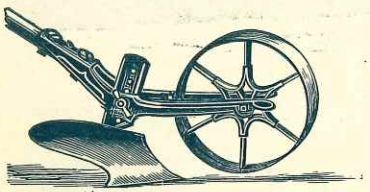
No. 11. Double Wheel Hoe, Cultivator, Rake and Plow.

No. 11 has 11 inch wheels which can be set at four different distances apart. The arch is of stiff steel unusually high. The frame is malleable and can be set at three different heights. The attachments comprise 1 pair Leaf Guards, 1 pair Plows, 2 pair Hoes, 2 pair Cultivating Teeth and 2 pair Rakes.

Price.....Net, $8.00

No. 12 is same as No. 11, but with less attachments, the equipment consists of 1 pair each Leaf Guards, Plows, Hoes and Cultivating Teeth.

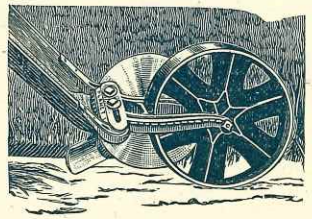
Price.....Net, $6.00



"Fire Fly," Plow

This Wheel Hand Plow, is a great labor-saving tool in the garden. The mouldboard is of polished steel.

Price.....Net, $2.00



"Planet, Jr.," Grass Edger.

It will edge either *paths, drives, open borders or flower beds.*

Price.....Net, $5.00

No. 13 has 1 pair 6 inch Hoes only.

Price.....Net, $4.00

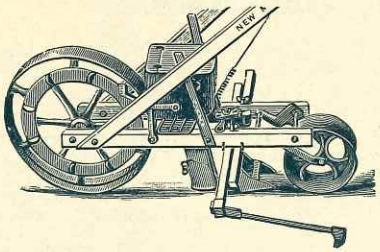
No. 8 HORSE HOE and Cultivator with Expanding and Wheel Levers.

Price.....$8.00

TWELVE TOOTH HARROW CULTIVATOR, with Expanding and Wheel Levers.

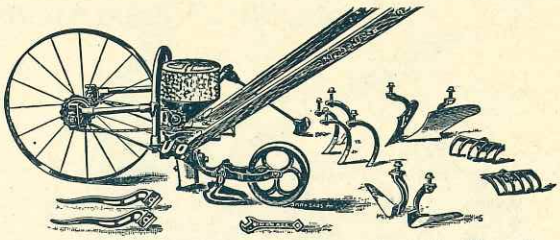
Price.....$6.65
With pulverizer..... 8.00

Send for full Illustrated Catalogue of "Planet, Jr." Goods.



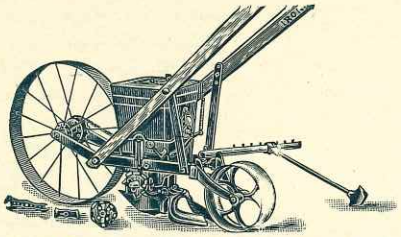
New Model Seed Drill.

This is a first class hand drill, is easily adjusted to sow accurately all kinds of small seeds. Price....$7.00



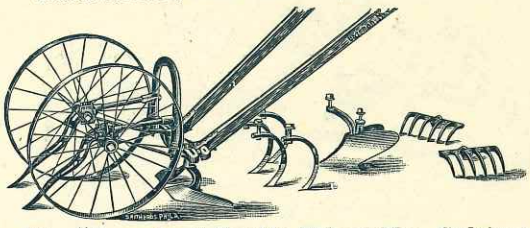
The "Iron Age" Combined Seed Drill and Wheel Hoe.

The above shows a Machine perfect in all its details. The drill attachment is complete in itself, and when put in place requires but two bolts to secure it. The cultivator attachments comprise those illustrated. It is well constructed and does satisfactory work. Price....$9.00.



The "Iron Age" Hill and Drill Seeder.

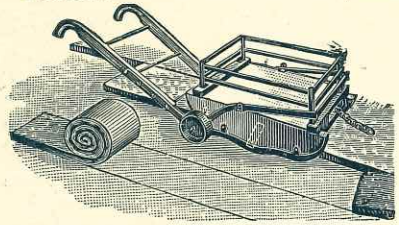
The above illustrates one of the latest machines introduced and embodies in its construction a number of new principles which are claimed places it ahead of similar makes now on the market. The wheel is 16 ins. high with a 2 ins. tread. The delivery of seed in drills is perfect, and will drop at 4½, 6, 9, 12, 18 and 36 ins. apart accurately.
Price.....$10.00



The "Iron Age" Double Wheel Hoe, Cultivator, Plow and Rake.

The wheels are of steel 16 ins. in height. High arch, capable of working astride of 20in. plants Three changes in height of wheels. An extra axle is supplied so as the machine can easily be changed from a Double to a Single Wheel—an excellent feature.

Price Complete as illustrated $6.00
" Plain (one pair Hoes only)..... 3.50
" Weeder attachment, per pair..... .75

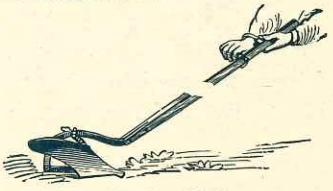


Sod Cutter.

This implement cuts the sod of uniform width and thickness in any length, cutting both ways with the land, and leaving no sod uncut.

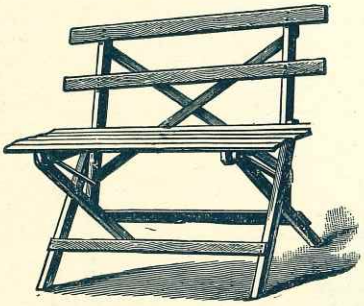
One machine will cut from 30,000 to 40,000 square feet per day, thus doing the work of forty men,

12 in. Machine (Horse)....$30.00
14 in. " " 32.00



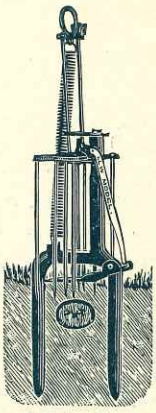
Steel Hand Plow.

This is used for similar purposes to those of the Fire Fly (page H 15), but is drawn instead of being pushed.
Price $1.00



Folding Settee.

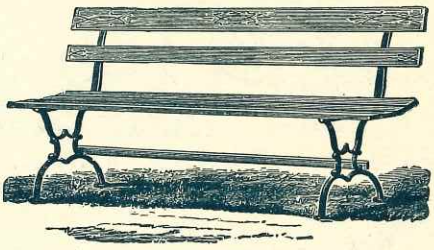
These come 4 feet in length, are light and strong, and fold up closely like a camp chair $1.00



Mole Trap.

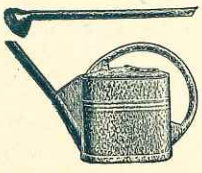
This self-setting trap is made of Malleable Iron and Steel It has 8 needles in the pin plate

It is the only Mole Trap that can be set under a Hot Frame, standing only 11½ inches over all.
Price.....$1.50



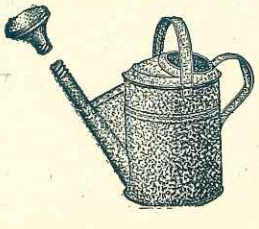
Lawn Settee.

This Settee is made with two cast standards nicely painted, the wood work being varnished.
Price, 4½ feet long, $3.25, 5½ feet long, $3.50.



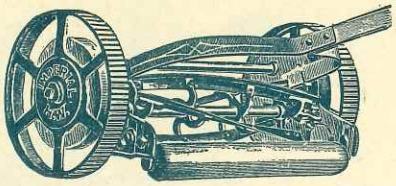
French Watering Pots.

6 quarts.....$1.50
8 " 1.75



Galvanized Watering Pots.

4	quarts.....	$ .35
6	"	.50
8	"	.60
10	"	.75
12	"	.85
16	"	1.00
20	"	1.75



"Imperial" Lawn Mower.

The ready adjustment of the revolving cutter to the bottom knife and the sharpening of same, also its easy and noiseless running, place the Imperial ahead of all Lawn Mowers now made.

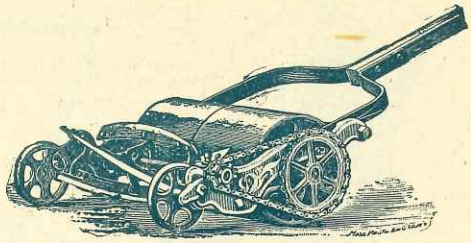
We furnish Self-adjusting, Ball Bearing Mowers at same price as High Wheel Imperial. Send for special circular.

Low Wheel, 8 in. diameter.

12 in	List,	$15.00	Net,	$6.00
14 "	"	17.00	"	6.80
16 "	"	19.00	"	7.60
18 "	"	21.00	"	8.40
20 "	"	23.00	"	9.20

High Wheel, 10 in. diameter.

14 in	List,	$20.00	Net,	$8.00
16 "	"	22.00	"	8.80
18 "	"	24.00	"	9.60
20 "	"	26.00	"	10.40



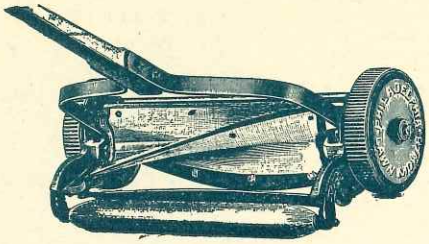
"Imperial" Chain Roller Mower.

This Mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work.

12 in	List,	$15.00	Net,	$10.00
14 "	"	17.00	"	11.25
16 "	"	19.00	"	12.50
18 "	"	21.00	"	14.00

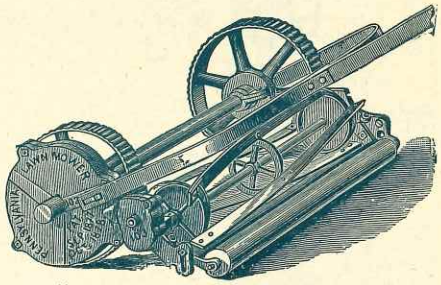
Grass Catchers for Imperial Mowers.

12 in	Net,	$1.70
14 "	"	1.85
16 "	"	2.00
18 "	"	2.15
20 "	"	2.30



"Philadelphia" Lawn Mower—Style "M."

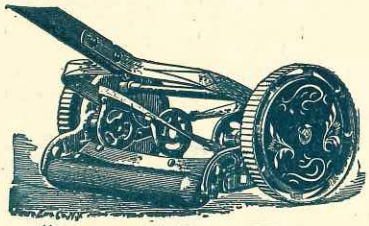
12 in	Wheels,	6½ in		List,	$15.00	Net,	$6.00
14 "	"	7 "		"	17.00	"	6.80
16 "	"	" "		"	19.00	"	7.60
18 "	"	" "		"	21.00	"	8.40
20 "	"	" "		"	23.00	"	9.20



"Pennsylvania" Lawn Mower. 10½ in. Wheels.

Cuts Grass which stands 6 to 10 in. high.

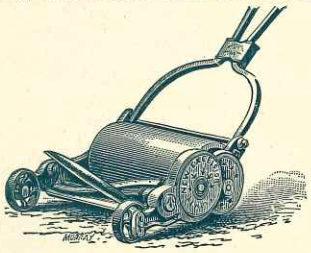
15 in	List,	$25.00	Net,	$12.50
17 "	"	28.00	"	14.00
19 "	"	31.00	"	15.50
21 "	"	34.00	"	17.00



"Crescent" Lawn Mower.

This machine has been constructed to meet the demand for a Good Low Price Mower, fully guaranteed.

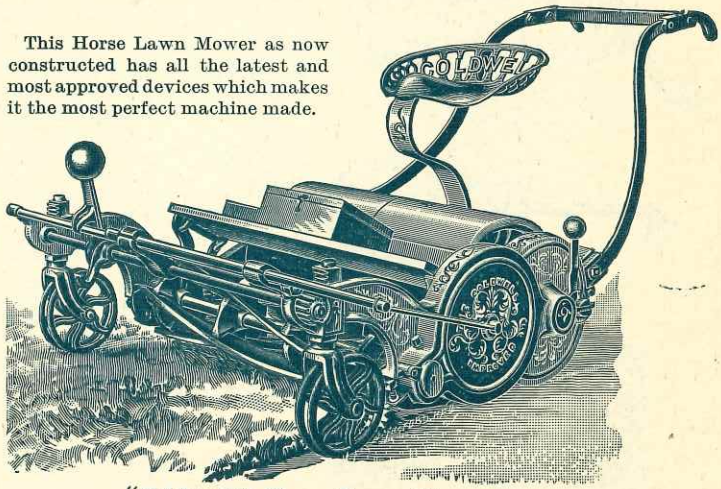
12 in. $3.00 14 in. $3.25 16 in. $3.75 18 in. $4.25



Roller Lawn Mower.

12 in. cut	List,	$15.00	Net,	$9.00
14 " "	"	17.00	"	10.20
16 " "	"	19.00	"	11.40
18 " "	"	21.00	"	12.60
20 " "	"	23.00	"	13.80

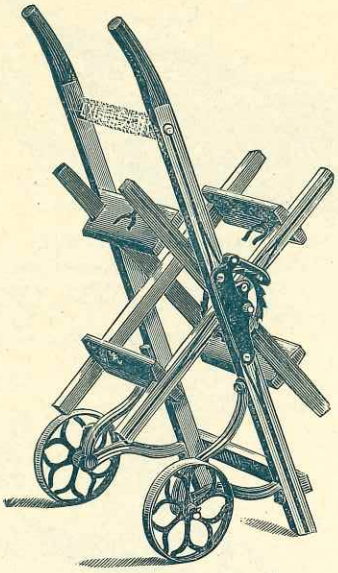
This Horse Lawn Mower as now constructed has all the latest and most approved devices which makes it the most perfect machine made.



"Coldwell" Horse Lawn Mower.

25 in. cut, without seat or shafts	List,	$65.00	Net,	$37.50
30 " " with " and "	"	110.00	"	60.00
35 " " " " "	"	135.00	"	75.00
40 " " " " "	"	170.00	"	90.00

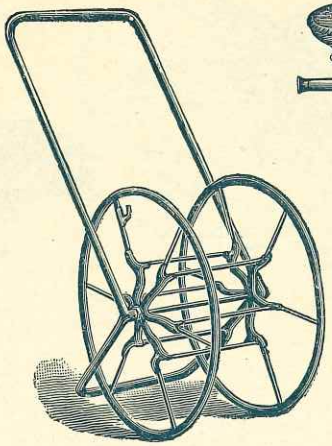
We also make Hand and Horse Mowers specially adapted for Golf Grounds.



Garden Hose Reel.

These Reels are made of seasoned wood, well built to stand much handling.

No. 1. Carries 50 ft. ¾ in. Hose. $2.00
" 2. " 100 " ¾ " " 2.25



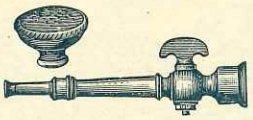
All Iron Hose Reel.

To Carry 100 ft. ¾ Hose.....$2.75
" " 500 " ¾ " 5.00

Rubber Garden Hose.

The "Rubber Hose," listed is that of high grade manufacture, which we furnish in the various sizes, coupled in 50 feet lengths.

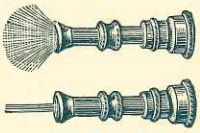
"Superior" quality, ¾ in., 3-ply, per length, $5.50
"Double Extra," ¾ in., 3-ply per length.....$6.50



Brass Hose Nozzle with Stop Cock.

Throws a stream or spray.

Price.....$ .75



Gem Nozzle.

Price.....$ .50

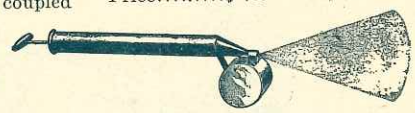
Fairy Nozzle.

Price.....$ .60

Water Witch Sprinkler.

PRICE.

$ .65



The Faultless Sprayer.

Throws a spray as fine as mist. Is adapted for the destroying of every kind of insect. For use in Potato or Tobacco Fields, Gardens, Greenhouses, Poultry Houses, etc. One-half tablespoonful of Paris Green, and once filling with water is sufficient to destroy all the bugs in 1,300 hills of Potatoes.

Price No. 1. Tin Sprayer..$ .75
" No. 2. Brass Sprayer 1.25

Pat. March 16 and Nov. 9, 1897.
Pat. in Canada Nov. 2, 1897.

BUG DEATH

Is a non-poisonous Powder that effectually takes the place of Paris Green and other dangerous insect powders when used as directed.

It is sure death to the Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, also other plant-eating pests.

It is a plant food of great merit, a benefit instead of injury to all plants, and prevention of blight or rust to the potato tops, keeping the tops healthy until the potato fully matures, which means a more starchy and perfect potato, less liable to rot.

It is applied dry. It will not blow or wash off. It can be applied early in the morning when plant is wet, or during damp, drizzly weather. The advantage of applying it while the vine is damp is that it will adhere to the vine under all conditions and can be done while the farmer is waiting for good weather and is there ready for the grub as soon as hatched.

If farmers use nothing but Bug Death on their potato vines they may plant peas or beans in connection with potatoes, even in same row, (as a great many did before they were obliged to use paris green and other dangerous poisons, and rest assured no harm can come from Bug Death, as it will greatly benefit the plant and make it grow better.

Use Bug Death liberally on rose bushes, house plants, shrubs, etc., the results will be marvelous. It is the best powder on the market for hen lice.

It is perfectly safe to handle. Will not injure stock or animals in the least. Must be kept perfectly dry so it will not clog in shaker. The more freely used the better the plant will thrive.

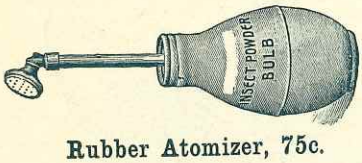
Bug Death Price List.

1 Pound Package.....$ .15
3 " " ..... .35
5 " " ..... .50
12½ " " 1.00

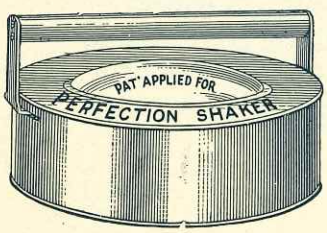
Packed for Dealers.

24 1 Pound Packages in a case.
12 3 " " " "
6 5 " " " "
4 12½ " " " "
6 Perfection Shakers in a crate.

Send for Testimonials.



Rubber Atomizer, 75c.



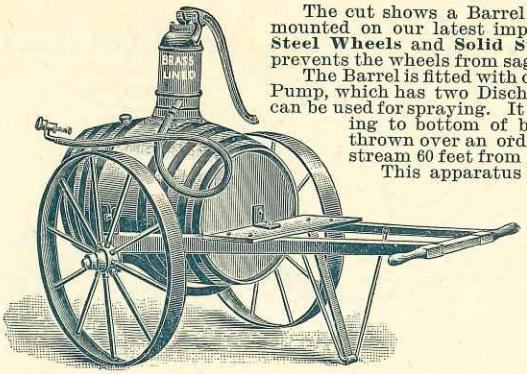
Perfection Shaker, 50c.

Each machine is furnished with 4 Tubes, 6 Nozzles, 2 straps and oil can; will dust two Rows of Potatoes at a time. Weighs about 6 lbs.

Price.....$7.50

Dry Bordeaux Mixture.

In 1 or 5 lb. Boxes. per lb. $ .13
" 50 lb. Kegs, per lb..... .12



The cut shows a Barrel which holds 45 gallons, mounted on our latest improved Truck having **all Steel Wheels** and **Solid Steel Bent Axle**, which prevents the wheels from sagging.

The Barrel is fitted with our new "Perfect" Spray Pump, which has two Discharge Ports; one or both can be used for spraying. It has a Pipe Agitator leading to bottom of barrel. A spray can be thrown over an ordinary fruit tree; a solid stream 60 feet from point of the nozzle.

This apparatus is nicely finished.

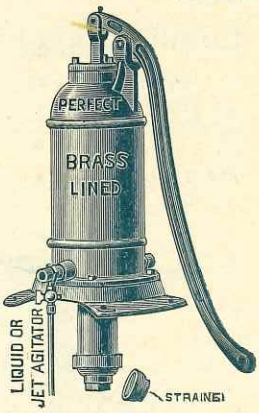
Price complete with 2½ in. Tire Wheels, one 5 ft. length, ½ in. Discharge Hose and Vermorel Nozzle.....$28.00

With 3½ Tire Wheels, Price.....$30.00.

Additional hose, ½ in. extra quality.

Per foot.....$ .15

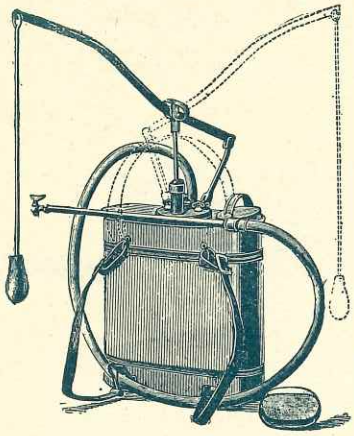
Barrel Spray Pump and Cart.



"Perfect" Barrel Spray Pump.

Has brass upper and brass lined lower cylinder, all brass plunger, and extra large air chamber.

Price.....complete with Jet Agitator, Suction Pipe and Strainer, and one 5 ft. length ½ in. Discharge Hose and Vermorel Nozzle.....$10.00



The Tank holds five gallons. The pump can be removed easily It is also fitted with handle so the operator can use it the same as the Bucket Spray, Pump. The handle lever can be shifted from right to left shoulder at will. The above is fitted with 5 feet of ½ inch hose, pipe extension, and Bordeaux spray nozzle.

PRICES.

With Tank of Galvanized Iron.....$6.50

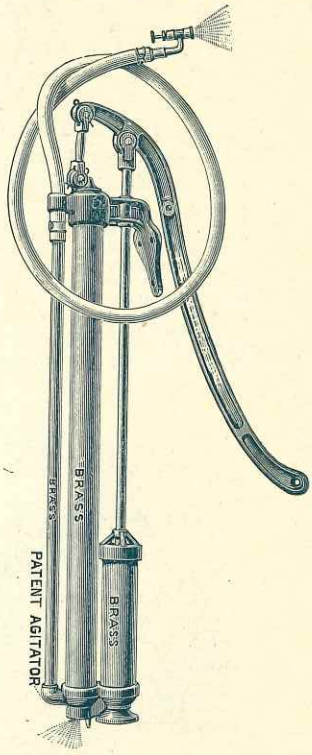
With Tank made of Copper. $10.00

Knapsack Spray Pump.

Fountain Spray Pump.

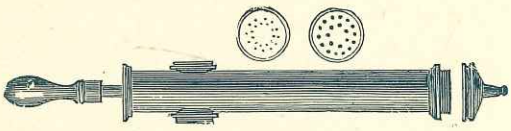
Holds 5 gallons—all working parts are brass the hose and discharge bulb are made of the best white Rubber; by compressing the Bulb a spray can be thrown from 3 to 15 ft. as desired.

Price.....$3.50



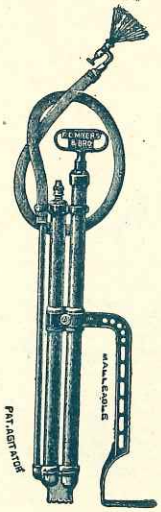
Brass Syringe.

No. 1. Barrel 15 in. long, 1¼ in. diam. 1 spray rose....$2.00



Brass Syringes.

No. 2. Barrel 15 in. long, 1¼ in. diam. 2 spray roses... 3.00
" 4. " 18 in. " 1½ in. " 2 " " .. 4.00



Brass Bucket Spray Pump.

For spraying fruit trees and shrubbery.

Will throw a solid stream 50 ft. Is extensively used for kalsomining stables and outhouses, etc.

Price.....$3.50

8 ft. Extension Pipe for any of the above pumps.

Price.....$ .50

The "Imperial" Lever Barrel Brass Spray Pump.

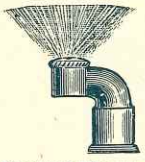
Is made with a 2 inch cylinder and air chamber with a capacity for two streams, has patent agitator, and is fitted with a casting on top of pump to bolt to chime of barrel.

Complete with 5 ft. of Discharge Hose and Graduating "Vermorel" Nozzle.

Price.....$7.50

Imperial Nozzles. $ .40

Vermorel Nozzle, $ .75



Cyclone Nozzle. $ .65

Male End. $ .25

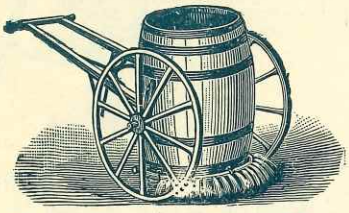
Bordeaux Nozzle. $ .75

Hose Reducer. $ .20

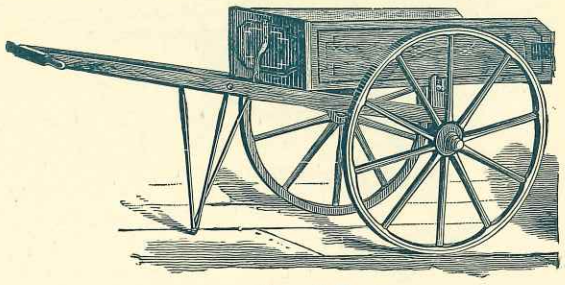
Combination of Truck, Barrel, Cart, Sprinkler and Leaf Rack.

The barrel is raised from the ground, carried to the place desired and *instantly detached*, all *without handling*. The weight being balanced over the axle, no lifting or down pressure is needed in transportation.

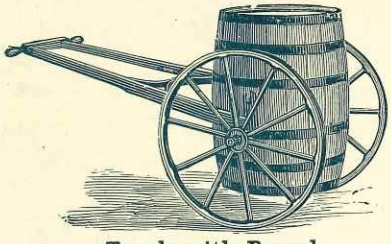
Other barrels for various purposes can be used as needed, extra trunnions being furnished, if desired.



Water Barrel and Sprinkler.

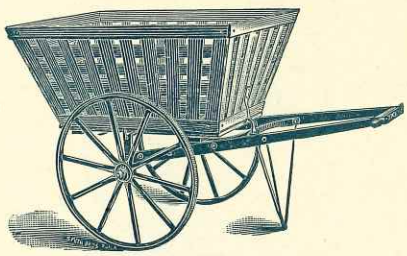


Hand Cart.



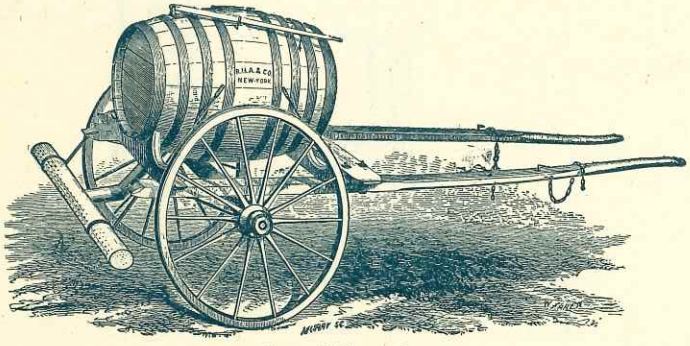
Truck with Barrel.

		Truck only
Truck and Barrel, Wheels, 1½ in. Tire. Price,	$10.00	$7.50
" " " " 2½ " " "	11.00	8.50
" " " " 4 " " "	12.00	9.50
Our Improved Water Barrel Truck with Steel 2½ in. Tire Wheels and continous Steel Axle mounted with Barrel.....Price,	17.00	
Sprinkling Attachment, add.....	2.75	
Box to make Hand-cart, "	2.50	
Leaf Rack "	4.40	
Extra Barrel with Trunions.....	2.50	
Extra Trunions, per pair.....	0.50	
Brass Lever Spray Pump.....	4.00	



Truck with Leaf Rack.

This is a very light Leaf Rack, which will be found extremely convenient for the cartage of leaves and cut grass from the Lawn, etc. Knocks down flat, taking very little room for storage.

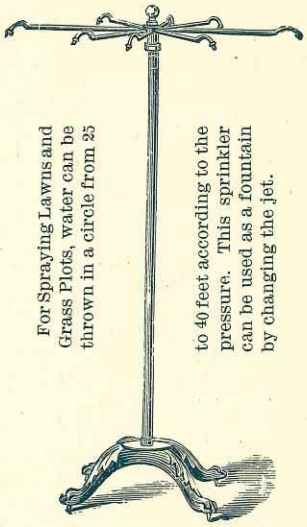


Sprinkling Cart.

The above has 3½ in. Tired Wheels and a capacity of from 120 to 140 gallons. Besides Water Sprinkling it can be used for spreading Liquid Manure.

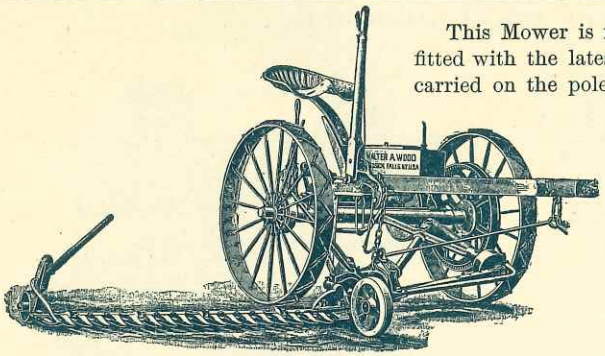
Price.....$75.00

Larger sizes made to order. They are also furnished without the Sprinkling Attachment if desired.


For Spraying Lawns and Grass Plots, water can be thrown in a circle from 25
to 40 feet according to the pressure. This sprinkler can be used as a fountain by changing the jet.

Portable Lawn Sprinkler.

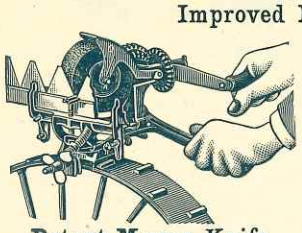
4-arm, $3.25 8-arm, $3.75



Improved Field Mower.

This Mower is manufactured of the best material, and is fitted with the latest Improved Roller Bearings. No weight carried on the pole. Pure under draught, with whiffletrees under the pole pulling the finger-bar along independently. The draught of this machine is much lighter than the majority of other makes now in use, and is unexcelled for durability and easy operation in the field.

One Horse,	3 ft.	6 in.	Cut	.....	$37.00
" "	4 "	0 "	"	.....	38.00
Two "	4 "	3 "	"	.....	40.00
" "	4 "	6 "	"	.....	40.00
" "	5 "	0 "	"	.....	42.00
" "	6 "	0 "	"	.....	44.00
Reaping Attachment				.....	17.00
Reaper, 5 ft. 0 in. Cut				.....	63.00
Binding Harvester, 5 ft. 0 in. Cut					105.00
" "	6 "	0 "	"		110.00
" "	with Bundle				
Carrier & Transport, 5ft. 0 in. Cut					110.00
Binding Harvester, with Bundle					
Carrier & Transport, 6ft. 0 in. Cut					115.00

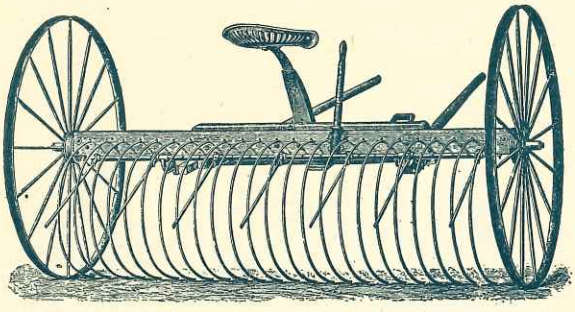


Patent Mower Knife Grinder.

This has a Corundum-Grinding Wheel. The tool is invaluable for sharpening Mower Knives in the field, being readily adjusted to the driving wheel.

The cut shows the Grinder in position for operating.

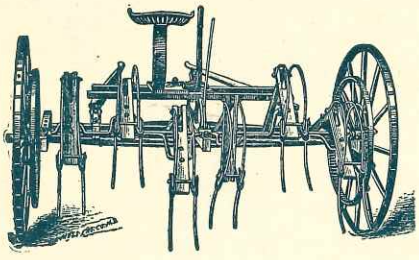
Price $5.00



Self-Dump Hay Rake.

The illustration shows our Combined, Self or Hand-Dump Hay Rake of latest construction, for one or two Horses. Has strong, Steel Wheels, large Steel Axles, Adjustable easy riding Seat, well tempered Steel Teeth, and Reliable Dumping Device. Rakes a width of 8 feet.

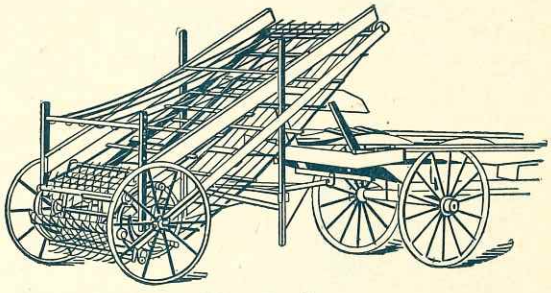
Price, with 20 Teeth.....$24.00
" " 24 " 25.00



Hay Tedder.

The patented tines are twice as long as other makes. No other Tedder Fork when struck squarely on end, can successfully shorten and lengthen itself in the direction of its length. While this fork has greater power to ted heavy hay, and is stiffer than any other for the business it has to do, it is more elastic in every direction and durable.

These Tedders are furnished with Combination Pole and Shafts Price.....$35.00

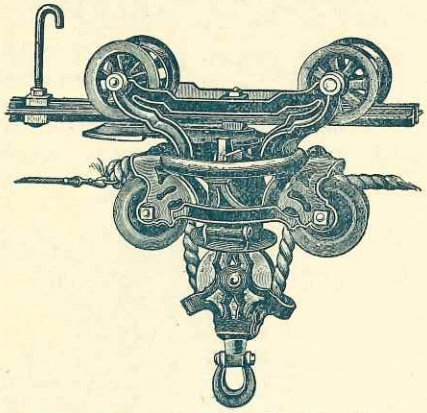


Hay Loader.

The only successful Hay Loader on the market. Puts a load on in ten minutes or less. It requires no extra men or horses to work it, being attached to the rear of any farm wagon and operated by the same team that draws the load—adding to the draught, when in operation, only the power of one man. Attaching to and detaching from the wagon is but the work of a moment.

Price $60.00
Side Delivery Rake..... 60.00

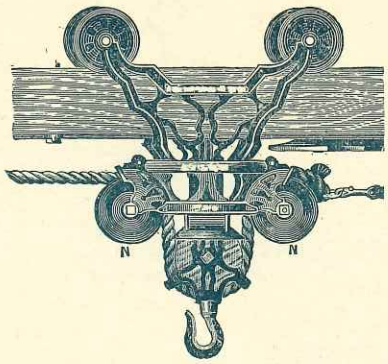
Hay Carriers and Equipments.



Combination Carrier for Double Steel Track.

This cut represents the latest improved Swivel and Reversible Carrier for Patent Double Steel Track. Is simple in construction and easily adjusted, making it the lightest and most reliable apparatus of the kind in the market.

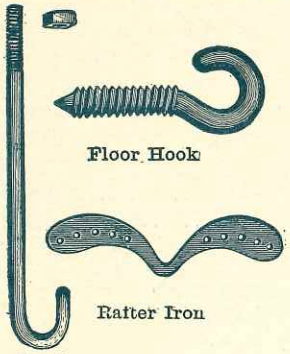
Carrier		$5.00
Track, per foot		.15
Track Hanger Hooks	Each	.08
Rafter Irons or Brackets	"	.06



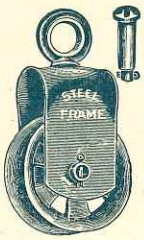
Reversible Carrier for Wood Track.

This is a straight Reversible dead lock Carrier made entirely of malleable iron and has a clevis (instead of hook as illustrated), and is one of the best wood track carriers in the market.

Carrier		$4.00
Track Hanger Hooks	Each	.07
Rafter Irons or Brackets	"	.06
Floor Hooks	"	.08
Rope Hitch	"	.20

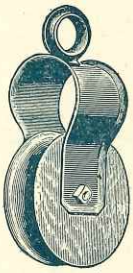


Wood Track Hanger Hook.



Steel Frame Pulley .25 Ea.

Regular Pulley .25 Ea.

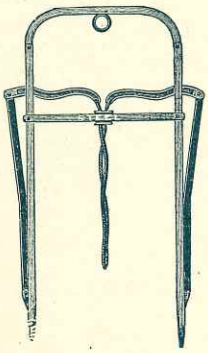


Knot Passing Pulley .30 Ea.

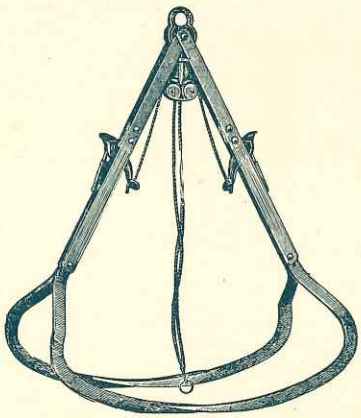
Floor Pulley .30 Ea.

Steel Track Hanger Hook.

The Nellis Single Harpoon Steel Fork, $2.25.

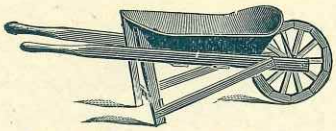


Double Harpoon Steel Fork, $1.20.



Automatic Grappling Fork.

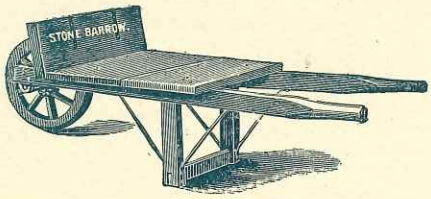
Four Tine		$4.75
Six	"	5.75



Steel Tray Canal Barrow.

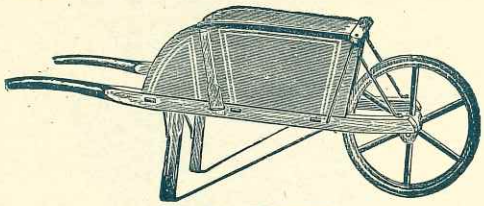
The framework of this barrow is bolted together, and is fitted with a steel tray—specially adapted for heavy work.

Price, with wood wheel.....$4.00
" " steel " 4.25



Stone Barrow.

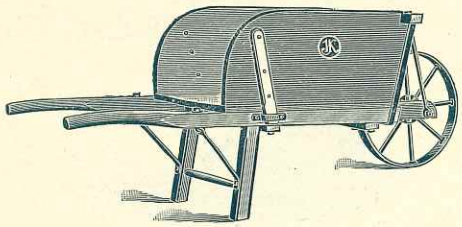
Price.....$2.75



Garden Barrow.

The above are made in five sizes, well built and nicely finished.

No. 0. Boys' Small.....$2.50
" 1. Boy's..... 2.75
" 2. Medium..... 3.50
" 3. Regular..... 4.00
" 4. Large..... 4.85



Folding Garden Barrow.

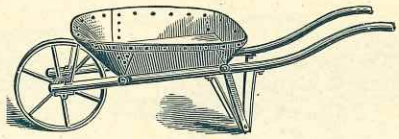
These barrows are firmly bolted together, iron-braced. and so constructed that they can be folded flat down in one package for shipment or storage. Can be set up for use in a few minutes

	Holding.	Wood Wheels.	Steel Wheels.
No. 20.	3 cubic feet.....	$3.25	$3.50
" 30.	4 " "	3.50	3.85
" 40.	6 " "	4.25	4.75

Two-Wheel Heavy Hand Cart.

This represents a Hand Cart, built extra strong for heavy work. Body measures 48 ins. long by 34 ins. wide by 12 ins. deep. Wheels 48 ins. diameter. Axle 1¼ ins,

Price.....$26.00

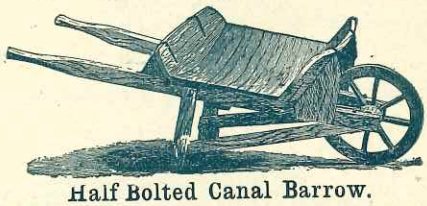


Steel Canal Barrow.

No.	Weighs.	Holding.	Price.
104	65 lbs.,	3 cubic feet.....	$7.75
104½	70 "	3 " "	8.25
105	80 "	4 " "	9.75
106	85 "	5 " " or 225 lbs. coal.....	10.75

Steel Coal Barrow.

Size.	Weighs.	Holding.	Price.
A 1	135 lbs.,	325 lbs	$18.75
B 1	145 "	400 "	20.75
C 1	135 "	260 "	18.75
D 1	98 "	300 "	13.00



Half Bolted Canal Barrow.

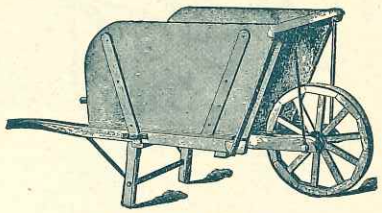
This is the ordinary barrow in common use.

Price.....$1.50

Full Bolted Canal Barrow.

This style is heavier built, the frame work being all put together with bolts.

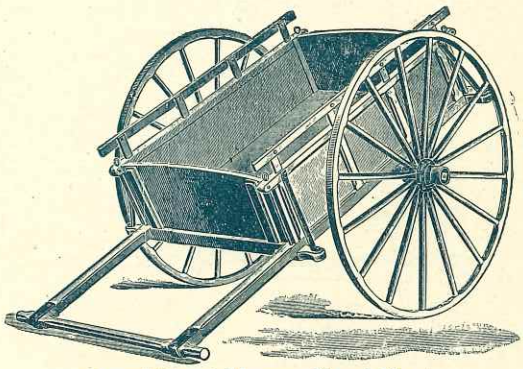
Price.....$1.75



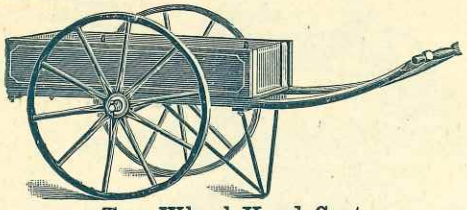
Stable Barrow.

This barrow is made with the box of extra large capacity, holding 10 cubic feet, well suited for use by stockmen, in livery stables, mills, &c.

Price, $5.00. With steel wheel, $5.50.



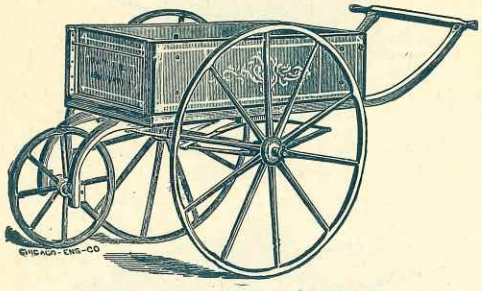
Two-Wheel Heavy Hand Cart.



Two-Wheel Hand Cart.

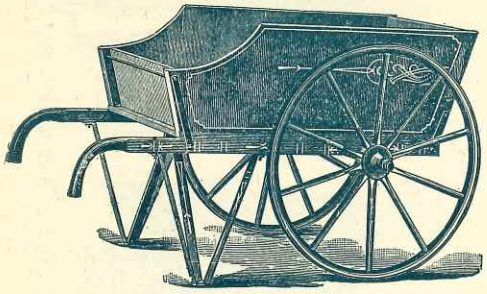
This illustrates an inexpensive Cart without springs for light work. Body 40x23 in. by 10 in deep. Wheels, 36 in. diam.

Price.....$9.00



Three-Wheel Hand Cart with Springs.

Body 40x23 in., wheels 36 in. diam.....$13.00
" 48x28 " " 42 " 15.00



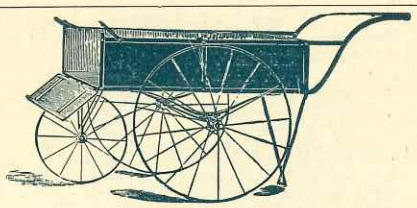
The "Rex" Two-Wheel Cart.

A most convenient Hand Cart for Gardeners, Farmers, Grocers and general use. The box is 3 ft. 10 in. x 1 ft. 9 in. wide inside at bottom, and 1 ft. 3 in. deep, the wheels 32 in. diam. The end boards are removable. Price.....$8.00

Bag Holder.

This is the only Bag Holder adapted to all sizes of bags, from a 48 lb. Flour Sack to a 6 bushel Gunny Bag. Weighs only 20 lbs.

Price.....$5.00



No. 5, With Drop End Board.

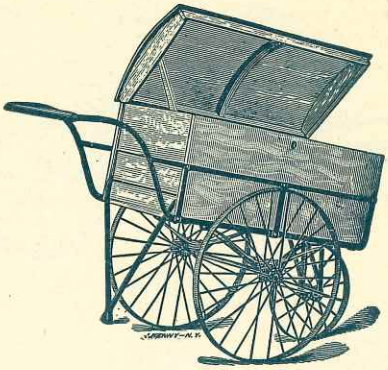
Steel Wheel Hand Carts.

These Carts are thoroughly painted and varnished and are useful for Farmers, Grocers, Bakers, Laundries and all general purposes.

The frame of body is made of steel, riveted together, is light and very strong, with wood box inside.

No. 2, size 39x20½ inches, depth 10 inches; with 3 wheels and Stationary End Board.....$12.00

No. 5, size 40x26 inches, depth 10 inches; with 3 wheels and Drop End Board.....$13.50



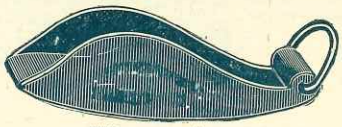
Laundry Cart.

Size 39x20½ inches, depth 21 inches.....$22.00

Bakers' Cart.

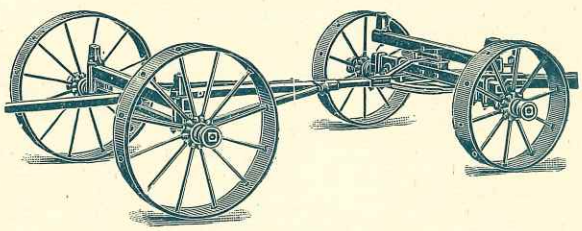
Opens at side and end, top stationary.

Size 40x26 inches, depth 22 inches.....$24.00



Wagon Shoes.

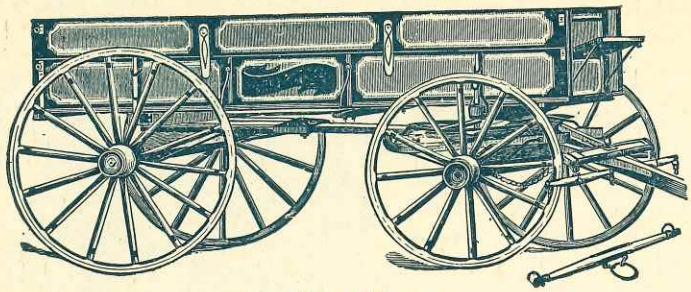
Prices.....2 n.....$1.00 3 in.....$1.20 4 in.....$1.35



Steel Handy Wagon.

Made in two sizes for 4 ft. 8 in. and 5 ft. track. Weight about 500 lbs. Front wheels 28 in. and Hind wheels 34 in. high with 4 in. grooved Tires. Just the thing for hauling over the Farm. Is strong and durable and gives the best of satisfaction. Guaranteed carrying capacity 4,000 lbs.

Price.....$40.00



Complete Wagons.

CAPACITY.	WEIGHT.	SIZE OF BOX.	AXLE	TIRE.	PRICE	ADD FOR
One Horse, 1,000 lbs.	450 lbs.	7 ft. 6 in. x 13 in.	1¼ in.	1¼ in.	$45.00	2 in. Tire, $2.00
" " 1,500 "	550 "	9 " x 15 "	1⅜ "	1¼ "	52.00	2 " " 3.00
Two " 2,000 "	775 "	10 " x 18 "	1½ "	1⅜ "	65.00	2½ " " 3.50
" " 2,500 "	850 "	10 " 6 " x 20 "	1⅝ "	1½ "	68.50	2½ " " 3.00
" " 3,500 "	950 "	10 " 6 " x 22 "	1¾ "	1½ "	73.00	2½ " " 4.00
" " 4,500 "	1,025 "	10 " 6 " x 24 "	1⅞ "	1⅝ "	78.50	2½ " " 2.50

Solid Steel Axle Farm Wagon.

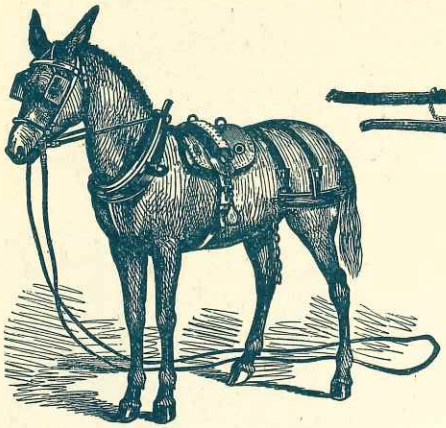
These Wagons are furnished complete with double box and spring seat (no brake), manufactured of the best material and workmanship for ordinary country use.

We furnish Wagons with Hollow Axles when desired. Box Brake for any size wagon.

Price.....$3.50

Running Gears Only.

TIRE.	PRICE.	ADD FOR
1¼ in.	$35.00	2 in. Tire $2.00
1½ "	40.00	2 " " 3.00
1⅝ "	50.00	2½ " " 3.50
1½ "	53.00	2½ " " 3.00
1½ "	57.00	2½ " " 4.00
1⅝ "	62.00	2½ " " 2.50



Cart Harness.

The saddles can be furnished with Hooks and Shaft Tugs or with Back Chain, as ordered.

No. 1, with Tugs, $23.75; with Back Chain, $22.75
" 2, " " 19.75; " " " 19.25

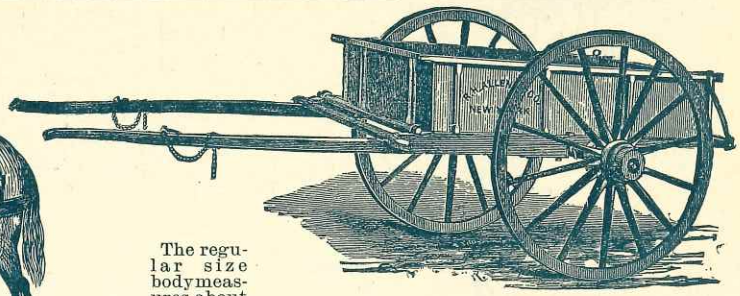
Lead Harness.

This Harness is used for Plowing, Lever Horse Powers and Mills, etc.

No. 1.....$10.50 No. 2.....$8.25

Wagon Harness.

No. 1. Double.....per set, $47.50
" 2. " ..... " 38.50

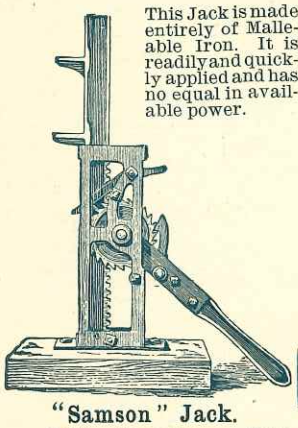


The regular size body measures about 5 ft. 3 in. long by 3 ft. wide, arranged to dump by a simple device in front. The wheels have tires 3½ in. wide.

Horse Carts.

No. 1 is a medium weight contractor's cart; No. 2 for ordinary work. No. 1½ is nicely finished for use around a country residence; the wheels of which are 4 ft. 4 in. diameter; those on the other carts measure 4 ft. 8 in.

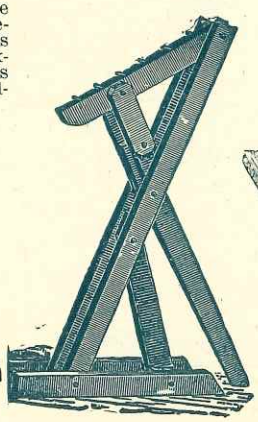
Price, No. 1....$47.50 No. 1½....$42.50 No. 2....$40.00
" Ox Cart, with pole..... 90.00



This Jack is made entirely of Malleable Iron. It is readily and quickly applied and has no equal in available power.

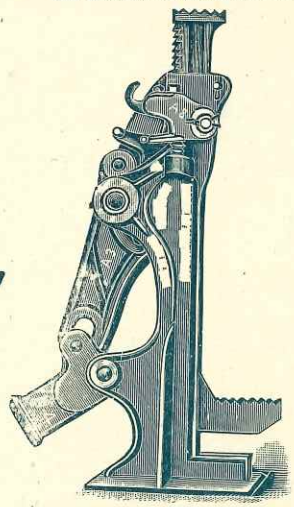
"Samson" Jack.

	Lifting Capacity	Price
No. 1.	3,500 lbs.....	$3.00
" 2.	6,000 "	3.75



"Davis" Jack.

Price .. ..$ .70



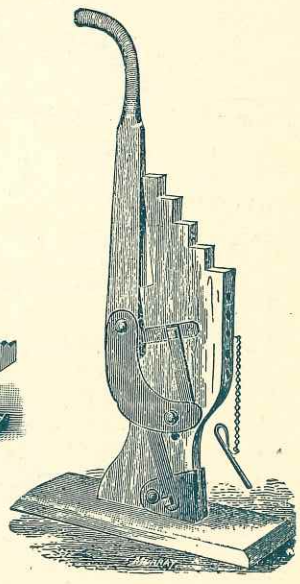
Malleable Jack.

Single Lever.

No.	Will Lift.	Price.
W	3 tons.	$5.00
O	4 "	7.50

Compound Lever.

No.	Will Lift.	Price.
A	6 tons.	$10.00
B	10 "	18.00



"Imperial" Jack.

No. 1.....$1.40
" 2..... 2.00

Store Hand Trucks.

Extensively used in and around Stores, Warehouses, Docks, etc.

In addition to the various trucks catalogued, we build to order every description of Trucks and Barrows, and make repairs, etc.

RUBBERED TIRE WHEELS ONLY.

7 ins.	Diam.,	per pair	$3.50
8 "	"	"	4.50
9 "	"	"	5.50
10 "	"	"	8.00
12 "	"	"	10.00

Railroad Truck, extra heavily ironed.....$12.00

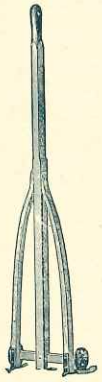
Fish Market Truck, with large Wood Wheels..... 15.00

Wood Slat Truck.

No.	As Per Cut.	Full Strapped Up	Add for Rubb'd Wheels	Length of Handles.
1	$3.50	$4.35	$3.00	4 ft., 0 ins.
2	4.30	5.15	3.75	4 " 5 "
3	5.00	5.90	4.50	4 " 8 "
4	5.75	6.80	6.50	5 " 0 "
5	6.85	8.00	9.00	5 " 4 "

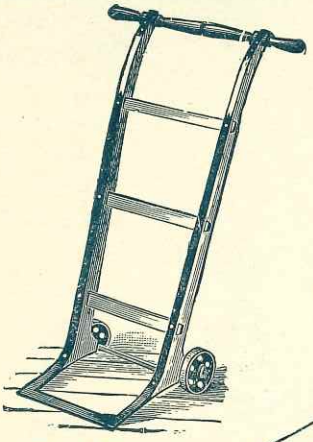
Iron Slat Truck.

No.	As Per Cut.	Add for Rubb'd Wheels.	Length of Handles.
1	$4.95	$3.00	4 ft., 0 ins.
2	6.30	3.75	4 " 5 "
3	7.00	4.50	4 " 8 "
4	8.10	6.50	5 " 0 "
5	9.15	9.00	5 " 4 "



One Handle Truck.

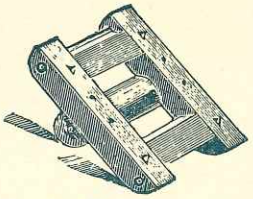
56 in. long, $2.50



Hotel Truck.

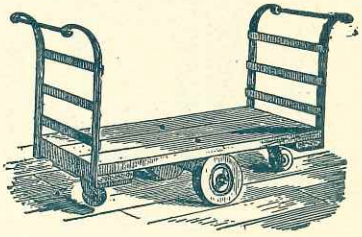
This is a light and useful truck for Hotels and Stores.

With Plain Wheels, $7.50
" Rubbered " 11.50



Timber Dolly, 16 x 24 ins.

Wood Roller, 12x16 ins. $7.25
Iron " " " 9.00

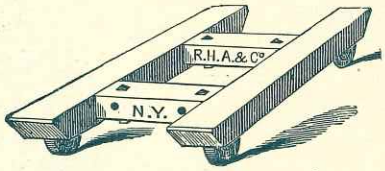


Dry Goods Truck.

For the dry goods and cloth trade, and hotels, this Truck is very useful. It has great capacity, is durable and noiseless, and does not injure the floor.

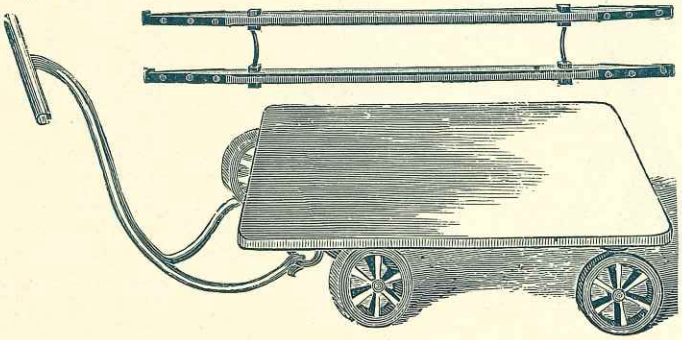
Regular Size, 3 ft. 6 in. x 2 ft. $13.00

Special Sizes to Order.



Block or Tobacco Truck.

Size 16 x 24 ins.....Price, $3.00



Platform Truck.

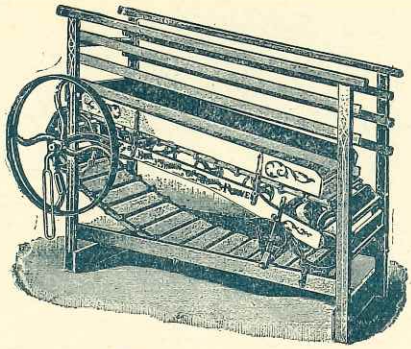
Skids.

6 feet long, $3.75 7 feet long, $4.25
8 " " 5.00 10 " heavy, 8.00

This represents the Platform Truck in general use. We also build this style of extra strength throughout, bound with iron for moving Tin, Sheet Iron and other metals. The platforms made any size desired.

Reg. Sizes	Length.		Width.	Wheels.	Price.
No. 1.	36 in.	by	24 in.	6 in.	....$ 8.50
" 2.	38 "	"	26 "	7 "	.... 10.00
" 3.	40 "	"	28 "	7 "	.... 11.00
" 4.	42 "	"	30 "	8 "	.... 11.75
" 5.	44 "	"	32 "	8 "	.... 12.75
" 6.	46 "	"	34 "	8 "	.... 14.00

Can also be furnished with rubbered Wheels.



Dog Power.

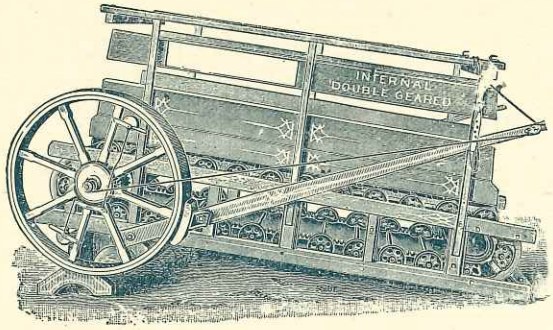
This cut illustrates a strong, well built machine, suitable for Dog, Sheep or Goat.....$18.00

A power of somewhat different model and lighter construction with crank movement..... 14.50

"Baby Junior" Tread Power.

We also build what is termed the "Baby Junior," differing from the Horse Power only in respect to size and weight, and can be run by an animal weighing from 200 to 700 lbs. It is specially adapted for running Cream Separators, Dairy and other light work.

Price, complete with Adjustable Speed Regulator..... 50.00

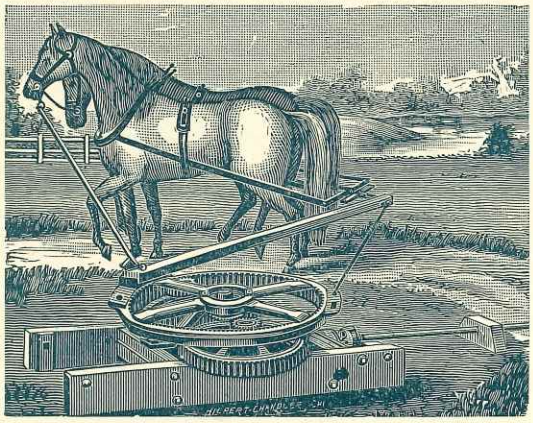


Horse Tread Power.

The Internal-Double Gear is a radically new departure in horse-tread power construction, combining all the advantages of double and triple gear with single shaft, thereby effecting a marked diminution of friction.—Further material saving of friction and consequent gain in power is made by the use of center draft lag irons.—These are of malleable iron and practically unbreakable, thus almost entirely eliminating an item of repairs, which in other makes of powers is a never-ending source of expense and vexation.

These powers are fitted with the Patent Adjustable Speed Regulator and is not only a positive safeguard against accidents from the flying off of the main belt, but is also of great advantage in regulating the motion of the machinery, especially upon any unsteady work.

One Horse Power with Automatic Adjustable Speed Regulator.....$ 85.00
Two Horse Power with " " 115.00
Three Horse Power with " " 140.00

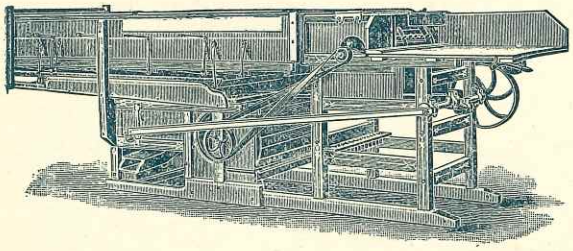


Lever Power.

These lever powers are used for running Corn Mills, Corn Shellers, Fodder Cutters, Cotton Gins, and other purposes. No. 1 has a speed of 48 revolutions to one walk of the horses. No. 2, 60 revolutions. No. 3, 78 revolutions.

No. 1. Suitable for one or two horses.....$43.50
" 2. " " two horses or light four horses..... 53.00
" 3. Suitable for four horses..... 66.50

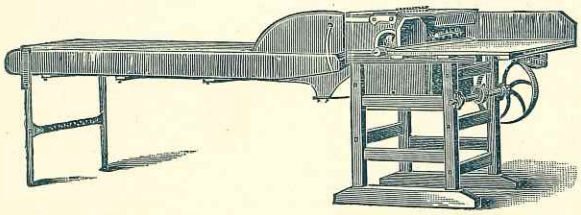
We also furnish those of larger capacity.



Thresher and Cleaner.

These machines are made in three sizes, suitable to be driven by one, two or three horse Tread Power, or two, four or six horse Lever power. They will Thresh, Separate and Clean thoroughly Oats, Wheat, Rye, Barley, also Rice.

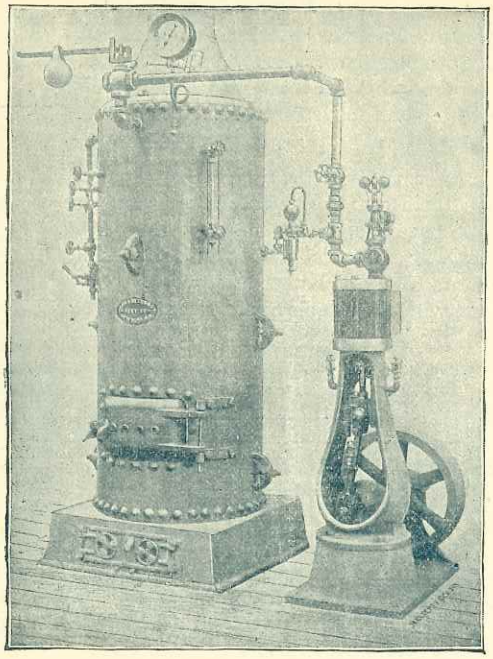
For one horse, with 23 in. cylinder...$108.00
" two " " 28 " ... 125.00
" three " " 32 " ... 165.00



Thresher and Shaker.

This machine only Threshes and Separates the Straw from the Grain and Chaff, but does not Clean it as in the above figure, this is done by the ordinary fanning mill.

For one horse, with 23 in. cylinder...$70.00
" two " " 28 " ... 81.00
" three " " 32 " ... 92.00



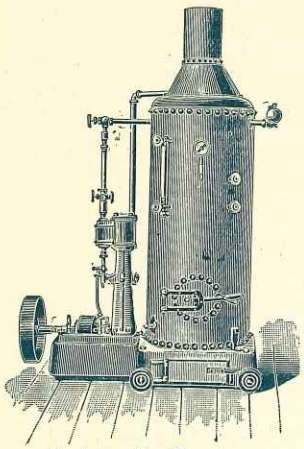
Vertical Engines and Boilers.

These engines, as will be seen, are self-contained cannot get out of line, and require no foundation They are built under careful supervision, and tested under steam before shipment. All wearing parts of ample size and well fitted. Crank, shaft, piston rod valve stem, crank and wrist pins and connecting rod of steel. Crosshead fitted with large brass gibs and instantly adjustable. Each Engine is fitted with governor, throttle valve, drip cocks, sight feed lubricator, wrenches and oil cups, making it a

HIGH GRADE ENGINE FOR CONTINUOUS DUTY.

HORSE POWER.	ENGINES COMPLETE. WITHOUT BOILERS.		ENGINES AND BOILERS COMPLETE AS SHOWN.	
	WEIGHT.	PRICE.	WEIGHT.	PRICE.
3	325 lbs.	$140.00	1500 lbs.	$290.00
4	400 "	166.00	1750 "	346.00
5	700 "	196.00	2700 "	424.00
6	850 "	208.00	2950 "	470.00
7	900 "	218.00	3100 "	516.00
9	1600 "	265.00	4300 "	600.00
10	1700 "	285.00	4500 "	650.00

For full details of the above, and list of larger sizes, see special circular.

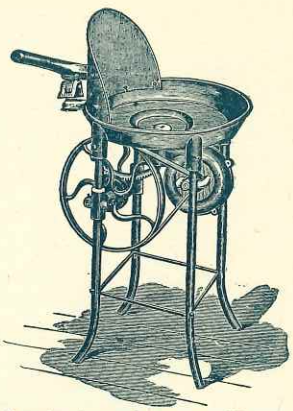


Automatic Engine.

This figure represents a two-horse power engine of new design, expressly for use in Creameries, Sawing wood, Driving Corn Shellers, Fodder Cutters, etc., and being automatic in action, uses only the required amount of steam necessary to perform the work in hand, ranging anywhere from one-fourth to two horse power. It is thoroughly well built of the best materials.

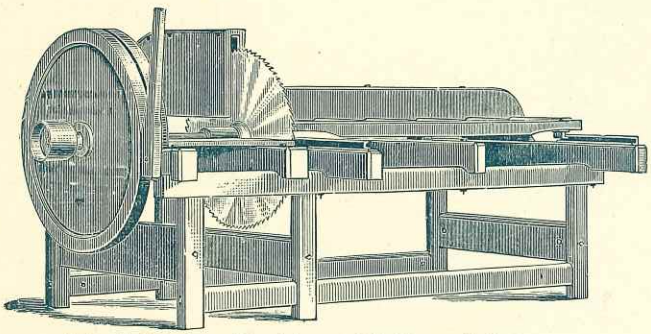
The steam gauge, water gauge, try cocks, safety valves, blow-off valve and hand holes are all in their proper places, making this as complete a rig as can be produced at the low price we name for it.

Price, Two Horse.....$135.00
" Three " 185.00



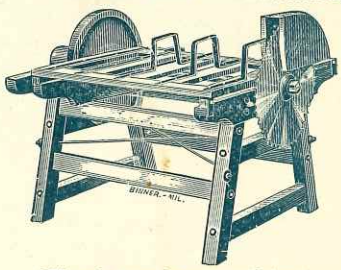
Agricultural Lever Forge.

For Farmers' and Planters' use, and all light work.
Height, 30 inches. Will produce a welding heat on 1-inch iron in five minutes.
Price, without Hood.....$10.00
" with half Hood.....11.50



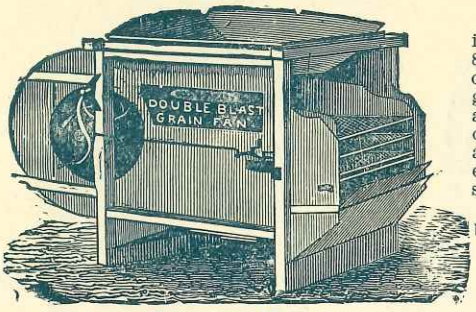
Wood Sawing Machine with Extended Frame.

This Machine has a 28-inch saw, and is designed especially for cutting long or sled-length wood, from 12 to 15 feet long and shorter, into stove wood. Will cut blocks two feet long, and will work equally well on four foot wood. Will cut through logs nine inches in diameter without turning. Price.....$70.00



Wood Sawing Machine, with Slide Table.

This Machine is fitted with a 24-inch saw. It is easily driven by a one-horse tread power, and will saw six cords of wood per day. Price..... $40.00



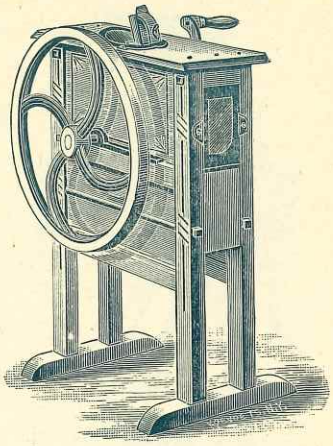
Fanning Mills.

These Mills are made in two styles; one with 8 sieves, suitable for cleaning all kinds of grain as well as grass and other seeds, the other with 5 sieves, suitable for cleaning different grains and other substances.

With 5 Sieves.

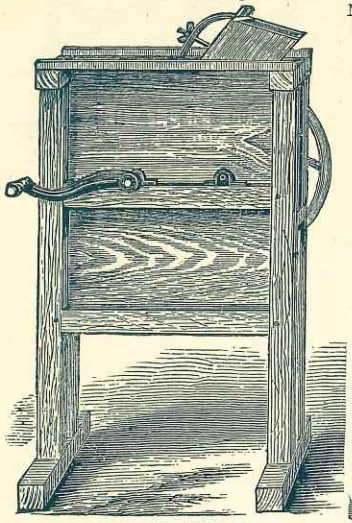
No.	Size.	Price.
1	14x18 in.	$18.00
2	16x18 "	21.00
3	16x20 "	24.00
4	18x20 "	27.00
5	20x20 "	29.00
6	22x20 "	32.00

Nos.		Size.	Price
1	with 8 sieves,	16x20 in.	$29.00
2	" " "	18x20 "	32.00
3	" " "	20x20 "	35.00
4	" " "	22x20 "	38.00
5	" " "	22x22 "	41.00
6	" " "	24x22 "	44.00



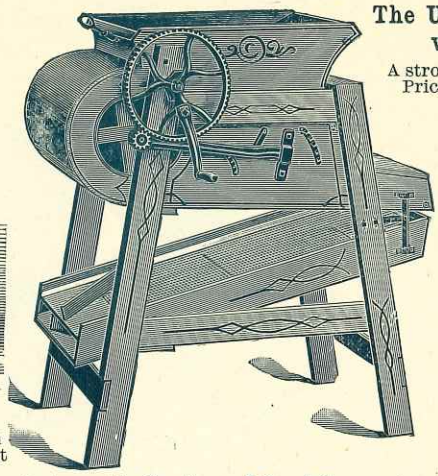
The Universal Corn Sheller with Separator.

A strong and well built Sheller.
Price.....$7.00



Plain Corn Sheller.

The above is one of the least expensive listed, It does not separate, but shells Corn effectively,
Price.....$5.00

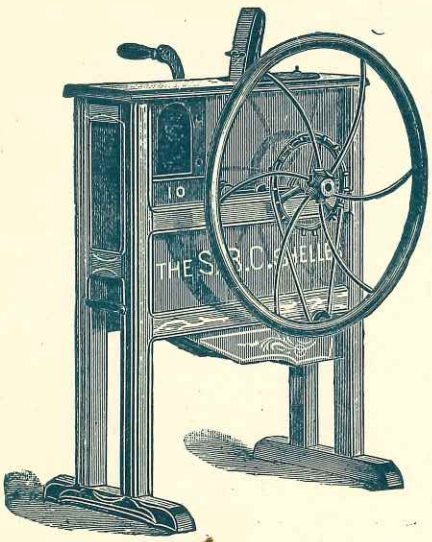


Automatic Grain and Seed Separator.

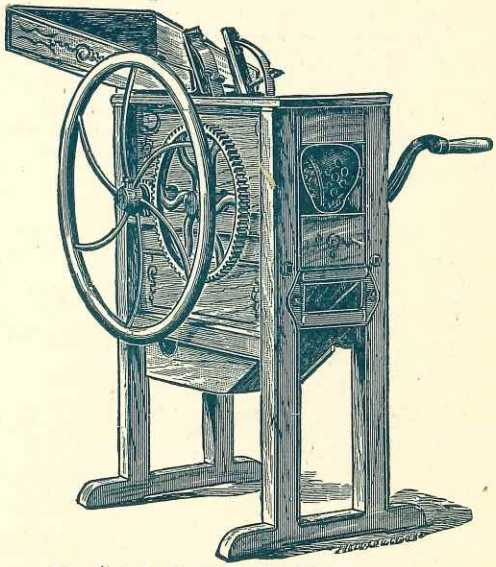
This Separator is a new machine, simple, durable and light running. Will clean and separate Oats, Wheat, Corn, Beans, Buckwheat, Clover, Timothy and other seeds and substances.

Weight 85 lbs. Cleaning capacity per hour, 30 to 50 bushels.

Price.....$18.00



The "S. B. C." Single Hopper.



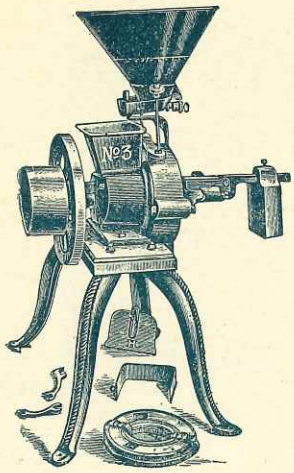
The "S. B. C." Double Hopper.

These Shellers separate the Corn from the Cob, and are made with and without fan, of hardwood and finished in the best manner, and without exception the finest in the market.

The Double Hopper Sheller is constructed to be operated by hand or power.

Price, Single Hopper without fan.....$8.00
" " " with " 9.00

Price, Double Hopper. complete with fan, pulley and feed table.....$18.00



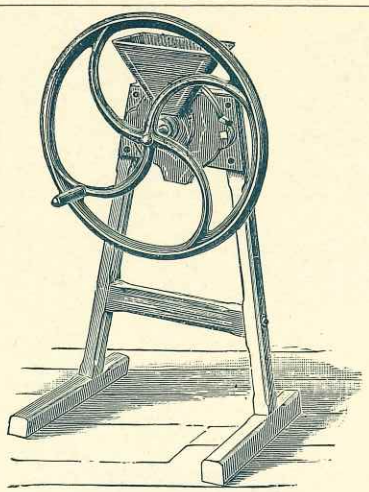
Farm, Grain & Bone Mill.

This will grind raw bones, greasy or dry; also Corn on the ear and small grain, combination making it a most desirable and complete Mill for the farmer.

Speed, 600 to 700 revolutions per minute. Capacity, 600 to 1,000 lbs. of Bones in 10 hours. Grain, 5 to 12 bushels per hour. Weight 300 lbs. Can be run with a 1, 2 or 4 Horse Tread Power. Price, $60.00.

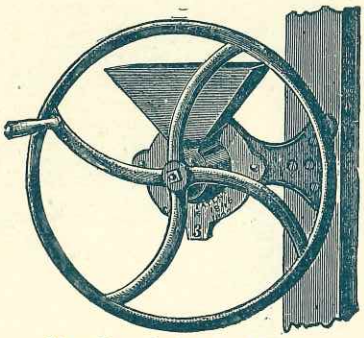
We also furnish a Mill similar to above, but of much larger capacity capable of turning out 2,000 to 3,000 lbs. of Bones in 10 hours, requiring 4 to 6 Horse Power. Weight, 1,000 lbs. Price....$150.00.

Send for full descriptive Circulars.

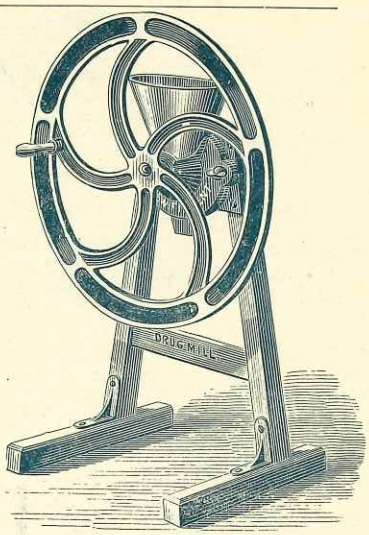


Corn and Coffee Mill.

No. 3.....$4.50
" 4..... 5.00
" 5..... 6.50



Nos. 3 and 4 Post Mills.



Improved Drug Mill.

The Hopper and Throat of the above are wide, admitting large pieces of bark, roots and drugs which are readily ground by this Mill to a coarse powder. Price, $9.00.

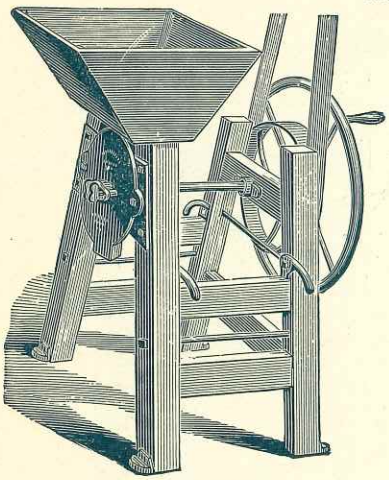
Post Mills.

These are especially constructed for Coffee but can also be used for cracking and grinding Corn and other grain.

Size No. 2 has crank only.

Nos. 3 and 4 have Balance Wheels as illustrated.

Price, No. 2.....$2.00 each.
" " 3..... 6.00 "
" " 4..... 7.00 "

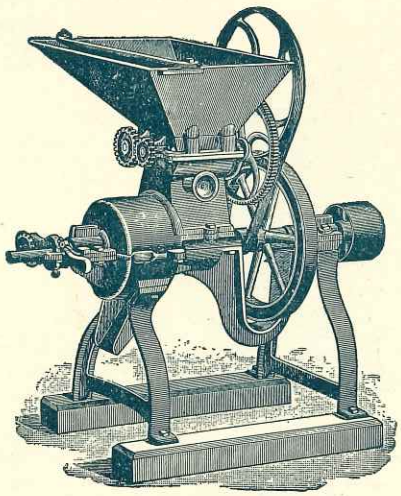


Farm Mill.

This is a substantial and serviceable mill, suitable for farmers and all others who have grain to grind for stock or family use. They are intended for power but can also be used by hand. Price.....$28.00.

Coffee Mill.

A mill is also made similar to the above, specially adapted for grinding coffee and spices. Capacity by hand, 2 to 4 lbs. per minute; by power, 400 to 600 lbs. per hour. Price.....$37.00.

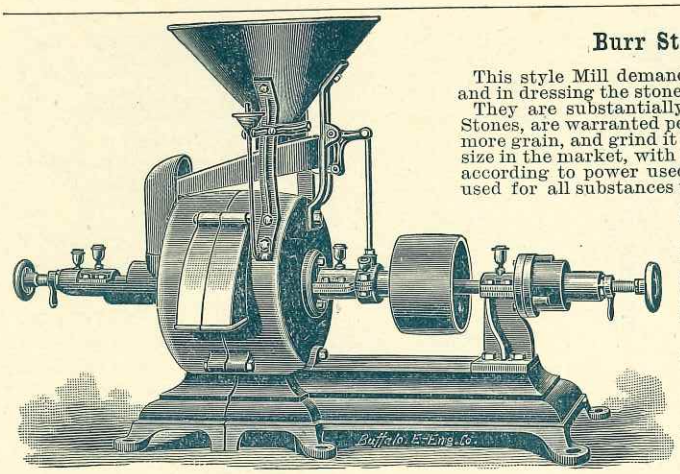


This illustration shows a new style of Mill specially adapted for grinding corn on the cob, also shelled corn as well as oats, and other grains. These Mills are strongly built to stand the greatest amount of tear and wear.

They are fitted with double breakers and a device for adjusting the feeding and grinding. The capacity given is approximate and varies according to the degree of fineness desired and amount of power applied.

Duplex Grinding Mill.

	No. 1.	No. 2.	No. 3.	No. 4.
Price.....	$45.00	$65.00	$75.00	$100.00
Capacity.....	5 to 15 Bus.	8 to 25 Bus.	15 to 35 Bus.	30 to 60 Bus.
Power, Steam	4 to 6 Horse	6 to 8 Horse	8 to 10 Horse	10 to 20 Horse
" Tread	2 to 3 "	3 to 4 "	.....	.....
Weight.....	300 lbs.	450 lbs.	550 lbs.	750 lbs.



Burr Stone Grinding Mill.

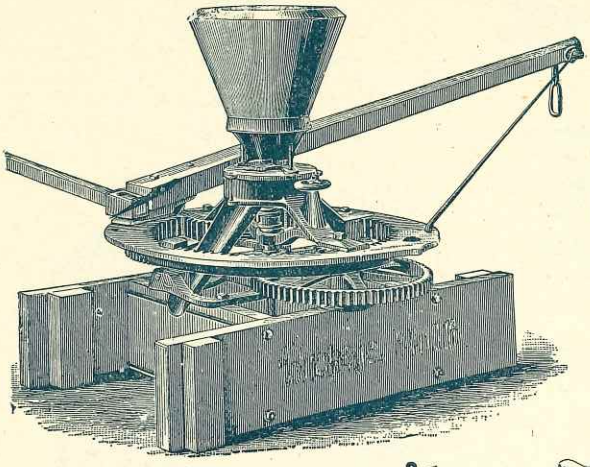
This style Mill demands only the usual care in management, and in dressing the stones when worn.

They are substantially built of the best selected French Burr Stones, are warranted perfect in every particular, and will grind more grain, and grind it better, than any other Mill of the same size in the market, with the same power. Capacity given being according to power used and fineness required. They are also used for all substances that can be ground by a Burr Stone Mill.

Size.	Capacity. Bus.	Power. Horse.	Weight	Price.
12 in.	5 to 15	4 to 5	450 lbs.	$100.00
16 in.	10 to 30	6 to 10	800 "	160.00
20 in.	15 to 60	10 to 20	1,200 "	200.00
24 in.	15 to 75	15 to 25	1,800 "	275.00
30 in.	25 to 100	20 to 35	2,500 "	325.00

In addition to the 12 in. Mill listed above, we also supply one of similar capacity, designed specially for use on a farm and is constructed to be run by wind mill, tread or other light power; Speed, 800 to 1,200 revolutions per minute.

Price.....$75.00



Cob and Grain Mill.

For Grinding Ear Corn or Small Grain.

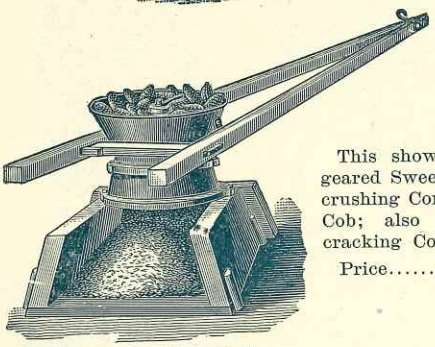
This represents one of the best Sweep Mills made. It is double geared, has steel shafts, is compactly built and of easy draft. The grinding burrs or plates make 27 revolutions to one walk of the horses, and will grind all kinds of grain in addition to ear corn, without change of plates.

Its capacity with two horses is 10 to 12 bushels of meal per hour. Weight about 750 lbs.

Price.....$57.00

Same Mill can be furnished without the Cob Attachment, for grinding small grain only.

Price.....$52.00



This shows an ungeared Sweep Mill for crushing Corn with the Cob; also used for cracking Corn only.

Price.....$25.00

Corn and Cob Mill.

The cut illustrates our Improved Paint Mills made in four sizes.

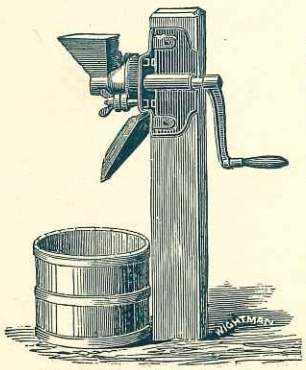
No. 4 Hopper holds 1 quart, $6.00
" 3 " " ½ gal. 8.00
" 2 " " 1 gal. } and may be used by power } 10.00

No. 1 is a Power Mill, the Hopper of which holds 3 gals., $28.00

Set of pulleys for driving No. 2 Mill.....$8.00

Set of pulleys for driving No. 1 Mill.....$14.00

No. 3. Paint Mill.



No. 1N with Crank.

These S and N Mills are especially adapted for grinding dry or wet Corn, and are also useful for grinding Coffee, Sugar, Salt, Spices, Drugs, etc. They are simple in construction, readily taken apart, are efficient and durable. Two styles are made. Geared and ungeared.

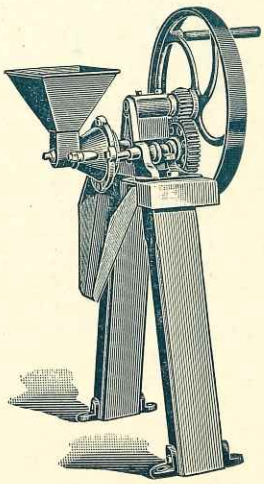
PRICES—GEARED.

No. 1 S, with Flywheel.....$10.00
" 2 S, " " 30.00
" 4 S, " " and Crank..... 60.00

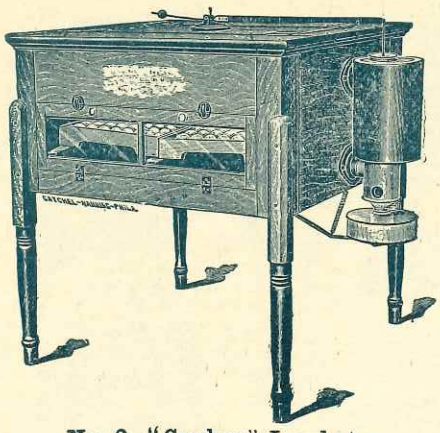
UNGEARED.

No. 1 N, with Crank.....$5.00
" 1 N, " Flywheel..... 7.00
" 2 N, " " 15.00
" 2 N, " Fast & Loose Pulleys.....20.00
" 3 N, " " " " 45.00

Prices do not include Wood Posts



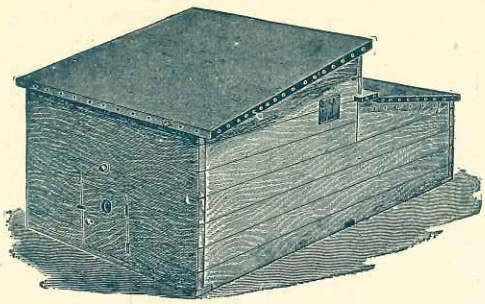
No. 2S with Fly Wheel.



No. 2. "Cypher" Incubator.

The "Cypher" is, without doubt, the most perfect Incubator made. Only the finest material is used and the most skilled workmen available are employed in their construction. A prominent feature in its operation, is the holding of the temperature, not within several degrees and called even, but to a fraction of a degree for an entire hatch, makes it a perfect Incubator, and secures the best and most satisfactory results with a hatching percentage far ahead of any other make of machine yet tested. There is no moisture pan in this incubator, the moisture being accurately regulated by the ventilating device. The numerous testimonials from those now using the "Cypher," confirm all that is claimed for them by the patentee.

WT. MOUNTED.		HEN EGGS.		DUCK EGGS.	LIST PRICE.	NET PRICE
125 lbs.	No. 1.	120	or	100	$20.00	$18.00
185 "	" 2.	220	"	190	29.00	26.10
210 "	" 3.	360	"	290	37.00	33.30
	" 2.	Double Decker,			58.00	52.20
	" 3.	"		"	74.00	66.60



Out-Door Brooder.

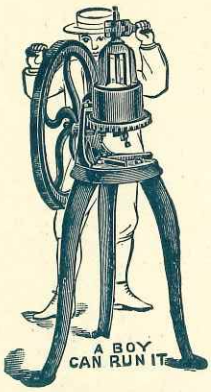
The style illustrated is designed for a Cold-Weather Brooder, and has a large heating capacity. Floor surface 3 x 5 ft. Height, 28 in. Price, net, $11.00

In-Door Brooder, Style B. Not Illustrated.

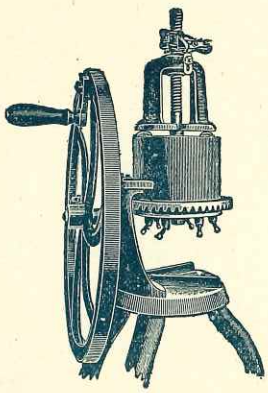
Is designed for Cold Buildings that have no other heat than that supplied by the brooder. Floor surface 3 x 3 ft. Height, 22 in. Price, net.....$9.00

In-Door Brooder, Style C. Not Illustrated.

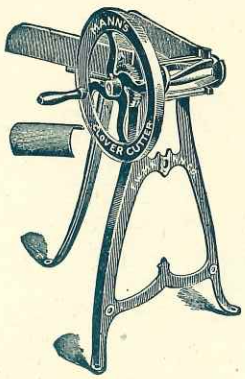
This is the only brooder supplying bottom heat where the lamp is above the floor. Floor surface, 3 x 3 ft. Height, 18 in. Price, net.....$8.00



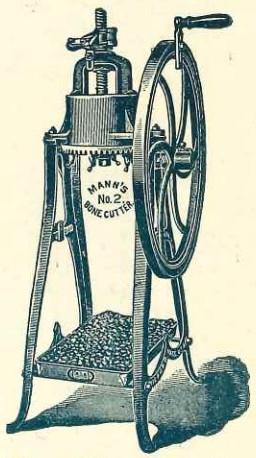
Bone Cutter, No. 1 B.M.



Bone Cutter, No. 4 B.M.



Clover Cutter.



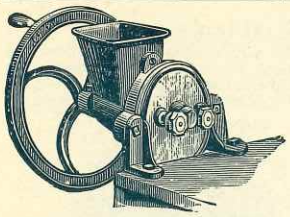
Bone Cutter, No. 2.

Mann's New Bone Cutters.

These Bone Cutters are unexcelled for durability, ease of operation, and rapidity of work. They will cut, fine or coarse, fresh bones with meat and gristle on them, dry bones, pressed scrap, corn or corn on the cob, potatoes, turnips and vegetables of all kinds, without clogging. Send for full illustrated and descriptive circular.

NO.	CAPACITY LBS. PER HOUR.	LIST PRICE.	NET PRICE.
1 B. With Balance Wheel,	15,	$ 8.75	$ 7.00
1 B.M. " " "	and Stand, 15-20	12.50	10.00
4 B. " " "	25-35	17.50	14.00
4 B.M. " " "	and Stand, 25-35	21.25	17.00
6 " " "	for Post. 30-60	20.00	16.00
2 " " "	30-60	23.00	18.40

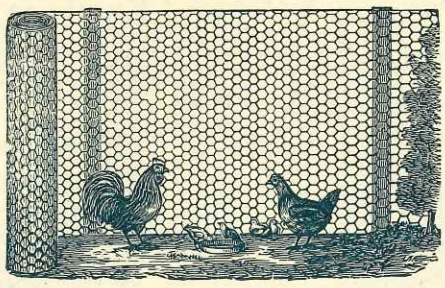
NO.	CAPACITY LBS. PER HOUR.	LIST PRICE.	NET PRICE.
8. With Two Balance Wheels,	45-75	$28.00	$22.40
10. Small Power Cutter,	100-125	32.50	26.00
14. Large " "	150-250	96.00	76.00
Clover Cutter, with Balance Wheel,		10.00	8.00
" " " "	" & Stand	12.50	10.00



Bone and Shell Mill.

This Mill is used for crushing oyster shells, grinding bone meal and all kinds of grain.

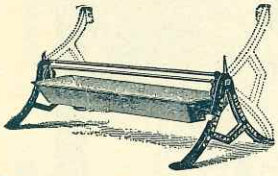
Price, $5.00 ; on legs, $7.00



Galvanized Wire Poultry Netting.

Comes in rolls 150 feet long, from 12 to 72 inches wide, 2 inch mesh. No. 19 Wire.

	Price per Roll.
12 inches wide	$1.00
18 " "	1.50
24 " "	2.00
36 " "	3.00
48 " "	4.00
60 " "	5.00
72 " "	6.00



Swinging Food Tray for Poultry.

Hens cannot scratch the food out or dirt in. Legs fasten anywhere.

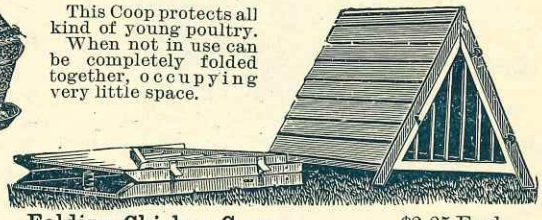
18 in	$1.00
27 "	1.25
36 "	1.50

Galvanized Fountains.

These can be thoroughly cleaned on the inside, the bottom being easily detached from the fountain.

Prices.	
2 Gals	$1.75
4 "	2.35
5 "	2.50

This Coop protects all kind of young poultry. When not in use can be completely folded together, occupying very little space.



Folding Chicken Coop ..... $2.25 Each.

Cast Iron Poultry Troughs.

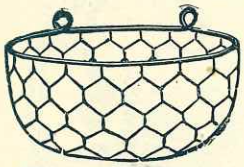
No. 1. 20 in. long, 4 in. wide at top, 1½ in. deep..... $.45 each.

No. 2. 23 in. long, 7 in. wide at top, 3 in. deep..... $ .60 each.

No. 3. 29 in. long, 7 in. wide at top, 3 in. deep..... $ .75 each

Granite Crystal Grit.

In Bags containing 100 lbs... ..... $1.00



Wire Hens' Nests.

$1.50 Per Doz, $ .15 Each.

Hallock's Food or Water Holder, size 2 gallons..... $ .75
" " " " " 3 " 1.00

Medicated Nest Eggs..... per dozen, 1.00
" " " ..... each, .10

Egg Testers..... " .35

Ground Oyster Shells, in bags of 100 lbs..... 1.00
" " " ..... per package, .20

Pure Cracked Bone..... per 100 lbs, 3.00
" " " ..... " package, .40

Pork Scraps in Cakes, 75 to 150 lbs..... per lb., .3½

Beef " " Bags of 100 lbs..... 3.00

" **Meal " " " "** 100 " 2.50

Pioneer Clover Meal in Bags of 100 lb..... 2.00

French Poultry Killing Knife.

$ .50

Poultry Marker.

Marks two sizes.

Nos. 1 and 2.....$ .25

Earthenware Fountains.

½ Gallons.....	$ .35
1 "	.45
2 "	.60

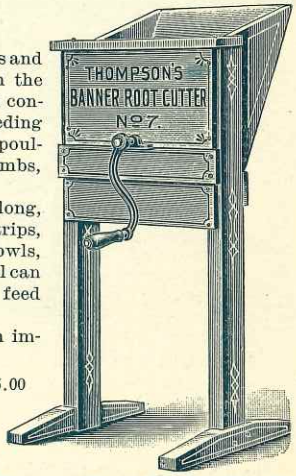
Caponizing Sets..... $2.75

Cuts all roots and vegetables in the best possible condition for feeding all kinds of poultry, young lambs, etc.

Feed left in long, small, thin strips, so that all fowls, large or small can eat the cut feed easily.

Choking an impossibiliy.

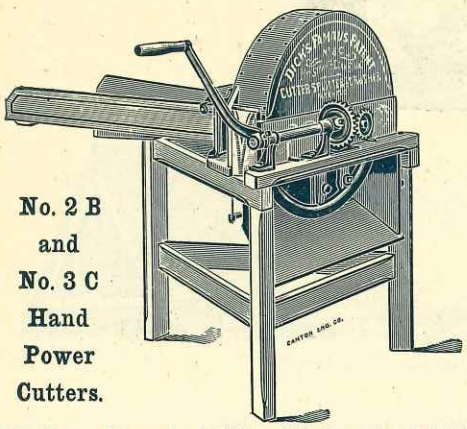
Price $5.00



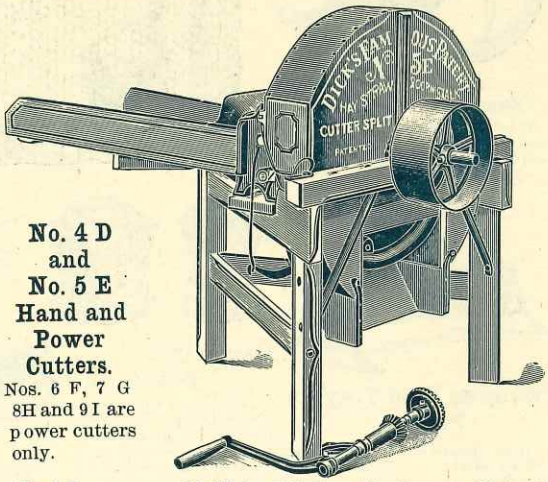
Banner Root Cutter No. 7

Dicks Famous Feed and Ensilage Cutters.

These Cutters have been made for over twenty years, and it has always been the aim of the manufacturer to make them of the best possible material. They are made in seven different sizes both for hand and power. The knives on all these cutters have a straight edge and can be easily ground. They cut six different lengths from ¼ in. up, and have the most perfect knife adjustment ever invented. Self-feeding rolls, driven without ratchets or springs. Splitting Bar attachments to split the Corn Stalks are also furnished.



No. 2 B and No. 3 C Hand Power Cutters.



No. 4 D and No. 5 E Hand and Power Cutters.

Nos. 6 F, 7 G 8H and 9 I are power cutters only.

No. 2 B	$19.00,	for Splitting Attachment add	$2 50
" 3 C	21.00,	" " " "	3.00
" 4 D,	For Power only		26.00
" 4 D,	For Hand Power only		28.00
" 4 D,	Both Hand and Power		30.00
	For Splitting Attachment add		3.50
" 5 E,	For Power only		36.00
" 5 E,	For Hand Power only		38.00
" 5 E,	Both Hand and Power		40.00
	For Splitting Attachment add		4.00

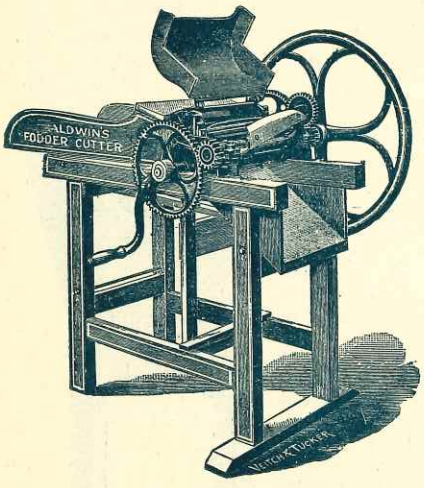
No. 6 F	$54.00.	for Splitting Attachment add	$6.00
" 7 G	63.00	" " " "	9.00
" 8 H	85.00	" " " "	12.00
" 9 I	135.00	" " " "	15.00
Endless Travelling Feed Box Bottom for 6 F and 7 G			12.00
" " " " " " 8 H			13.00
" " " " " " 9 I			15.00

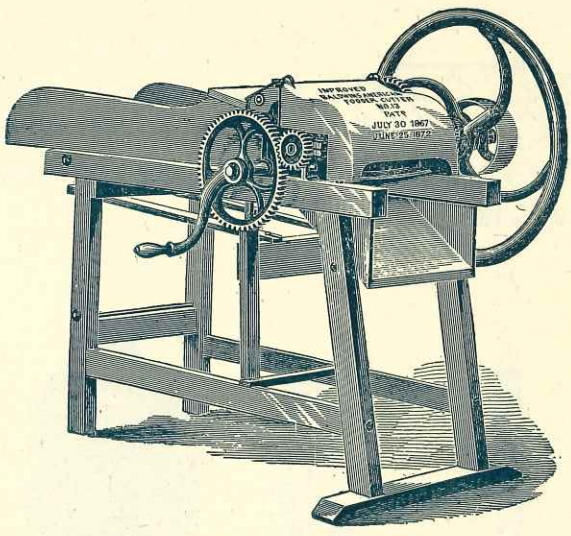
Carriers for Right, Left and Straight away delivery are furnished for Cutters No. 5 E, 6 F, 7 G, 8 H and 9 I.

Send for Full Descriptive Pamphlet.

American Fodder Cutters.

These are a Standard Make of Fodder Cutters, which have been on the market for upwards of 20 years, they are now being built with all the latest improvements. The Power sizes are fitted with the only reliable Safety Balance Wheel made. These Machines have no superior for cutting Hay, Corn Stalks, Sugar Cane, etc. The larger Power Cutters are used for Ensilage and can be furnished with carriers.





Hand Cutters with One Knife.

No.	Length of Knife.	Length of Cut.	Price.
1	6 in	½, 1, 1½ and 2 in	$18.00
9	8¼ "	" " " "	22.00
10	9½ "	" " " "	26.00
11	11 "	" " " "	30.00

Hand Cutters with Two Knives.

9	8¼ "	¼, ⅛, ¾ and 1 in	$25.00
10	9½ "	" " " "	28.50
11	11 "	" " " "	32.00

Power Cutters with Two Knives.

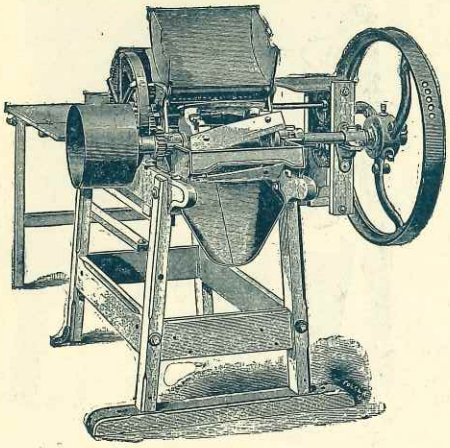
No.	Length of Knives.	Length of Cut,	Price.
*13a	13 in	¼, ½, ¾ and 1 in	$45.00
†13½	13½ "	" " " "	50.00
†14a	15 "	" " " "	55.00
†14½	15½ "	" " " "	60.00
†15a	18 "	3-16, ⅜, ¾ and 1 in	100.00
†15b	18 "	3-16, ¾, ¾ " 1 "	100.00

* Hand and Power. † Power only.

Send for Full Descriptive Circular.

The "Ross" Fodder and Ensilage Cutters.

These machines as now manufactured have all the latest devices and improvements which place them among the foremost Fodder Cutters.



No. 111. Little Giant Cutter.

No. 09 Little Giant has two 9 inch knives, is a light power machine. Capacity 500 to 800 pounds of straw per hour, 1,500 to 2,000 pounds Fodder per hour. Power required ½ to 1 horse.

Price.....$40.00
With two Balance Wheels and Pulley. 45.00

No. 111 Little Giant has four 11-inch knives, cuts ¼, ½ and 1 inch. Capacity 1,000 to 1,500 pounds of Hay per hour, 2,000 to 3,000 pounds Fodder per hour. Power required. 1 horse, tread.

Price.....$50.00
With two Balance Wheels and Pulley. 55.00
New Swivel Carrier..... 36.00
Extra per foot over 12 feet..... 1.75

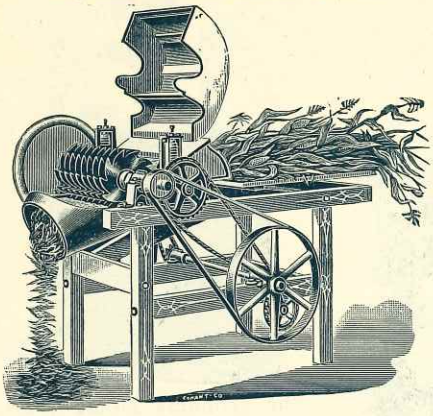
No. 113 Little Giant has four 13-inch knives, cuts ¼, ½ and 1 inch. With two knives on, cuts 2 inches. Capacity 2,000 to 3,000 pounds dry Fodder per hour, 2,000 pounds Hay and Straw, 4 tons Ensilage per hour, according to length of cut. Power required, 1 to 2 horse, tread.

Price.....$65.00
New Swivel Carrier..... 42.00
Extra per foot over 12 feet..... 2.00

No. 116 Little Giant has four 16-inch knives, cuts same length as No. 113 Capacity 3,000 pounds Hay and Straw per hour, 3 tons Corn Fodder per hour, 8 to 10 tons Ensilage per hour. Power required 3 horse, tread; same engine power or greater.

Price.....$90.00
New Swivel Carrier..... 44.00
Extra per foot over 12 feet..... 2.00

Send for full descriptive catalogue of the above and larger sizes.



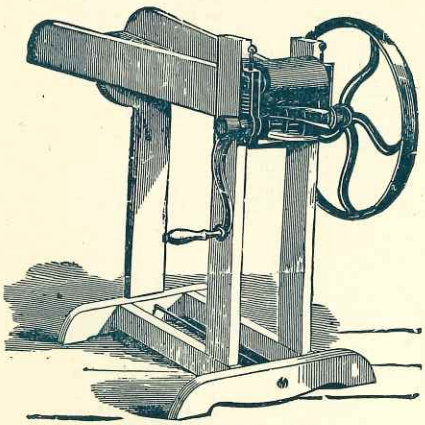
Improved Fodder Shredder

The tearing up or shredding of Corn Fodder, Sugar Cane. Straw or Hay, is a new and superior method and vastly better than the usual way of cutting. This machine has a set of saws instead of knives. When the fodder has passed the saws it is left in the best possible condition, as it is torn into irregular fragments, so fine that there is no waste when fed out. So soft or spongy is the mass that it will absorb a large quantity of, water, and by mixing with shorts or meal, makes a complete food for stock.

These machines are built in three sizes with Snapping Rolls or large Feed Rolls, as preferred. With Snapping Rolls, machine will completely husk 50 to 75 per cent. of the ears. Speed, 1,500 revolutions per minute.

No. 1A. 6 saws, 12 in. cut, power 2 to 3 horse, actual...$80.00
" 2B. 9 " 18 " " " 4 " 6 " " 100.00
" 4D. 12 " 24 " " " 10 "12 " " 130.00
Swinging Carrier for all sizes 12 ft. long or under..... 36.00
Swinging Carrier over 12 ft. long, add per foot..... 1.75
Ear Carrier for all sizes..... 22.00

New Shredder for light power has 4 saws, and can be operated by 1 or 2 horse tread power. Speed about 1,000 revolutions per minute. Price.....$57.00

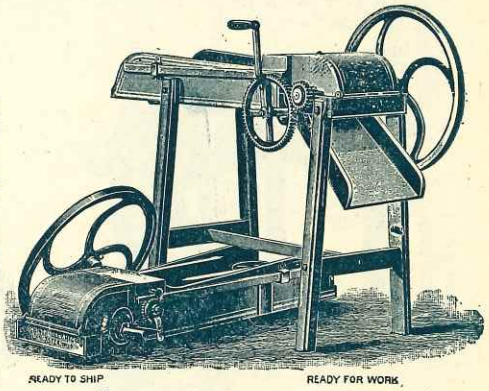


Roller Hay Cutter.

Roller Hay Cutter.

No.	No. of Knives.	Length of Knives.	Length of Cut.	Price.
00	4	6 in.	2 in.	$6.50
0	5	6 "	1¾ "	7.00
1	6	6 "	1⅝ "	8.00
2	6	6½ "	1⅝ "	9.00
3	6	7 "	1⅝ "	11.00
1	8	6 "	1 "	8.50
2	8	6½ "	1 "	9.50
3	8	7 "	1 "	11.50
4	8	8 "	1 "	13.00
1	10	6 "	¾ "	9.00
2	10	6½ "	¾ "	10.00
3	10	7 "	¾ "	12.00
4	10	8 "	¾ "	14.00

The knives in the revolving cylinder of this machine cut against the upper roll. It cuts Hay and Straw rapidly, and is well adapted for cutting for a small number of horses.



"Crescent" Fodder Cutter.

The above is a well-made low priced Cutter with two Knives. Cuts all kinds of Fodder in the different desirable lengths.

Price.....$17.00

"Banner" Root Cutters.

These are the easiest running and most Rapid Root Cutters made, and a machine indispensable to a Farmer. The gouge-shaped knives are of the best steel and can be easily taken off to sharpen. The roots feed themselves down to a heavy iron balance wheel to which the knives are attached.

They are fitted with the self feeder and dirt separator.

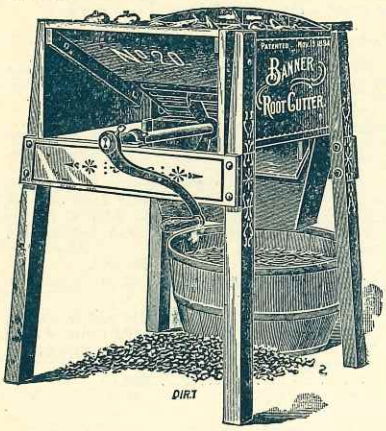
No. 20 is for hand use, and has a capacity of 30 to 50 bushels per hour.

No. 15 is the same as No. 20, but has a pulley in addition to the crank, and by power will cut easily 60 to 80 bushels per hour.

No. 16 is a hand and power machine, has extended sides, and is fitted with an extra balance wheel and pulley for power. Capacity 1 to 3 bushels per minute.

No. 10 is for power only, has 40 knives. Capacity 5 to 7 bushels per minute.

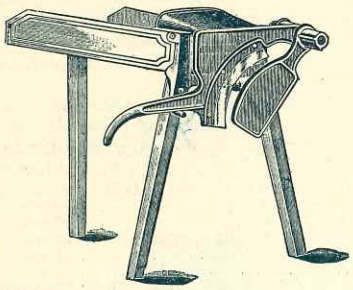
Machines fitted with knives for fine Cutting, suitable for Poultry, etc. at same list prices.



No. 20.

No. 16.

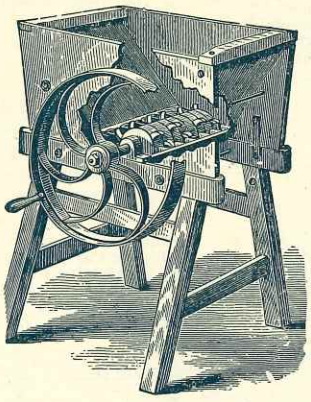
Price, No. 20.....$12.00
" " 15..... 14.00
" " 16..... 20.00
" " 10..... 30.00
" " 7 Special for Poultry... 5.00



Patent Lever Cutter.

The easy and secure adjustment of the lever to the throat piece, makes this Cutter very efficient.

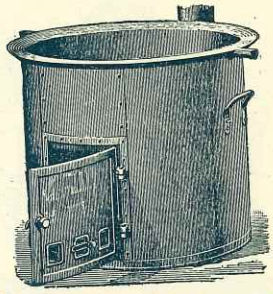
Price.....$4.00.



"Victor" Root Cutter.

This is a well made and cheap machine for cutting Turnips, Beets, Carrots, etc.

Price.....$8.00

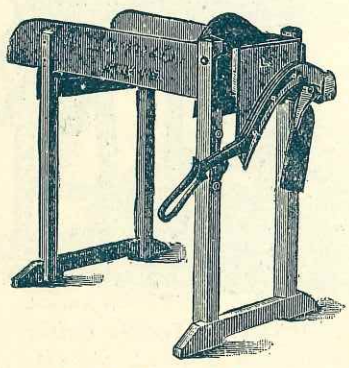


The Economy Boiler and Food Cooker.

The above is made in four sizes to burn wood fuel. The Kettles, which can be removed from the Casing instantly, are of Cast Iron; the Casing or Jacket of Rolled Steel, and stands 30 in. high. It is designed to set on the ground or brick foundation.

This is the cheapest Food Cooker on the market.

Price, with 40 Gal. Kettle.....$13.50
" " 60 " " 16.00
" " 70 " " 18.00
" " 100 " " 24.00
Add for Cast Iron Coal Fixtures $4.50



No. 3. Lever Cutter.

For cutting Hay, Straw, Corn Stalks, etc.

Price.....$4.75

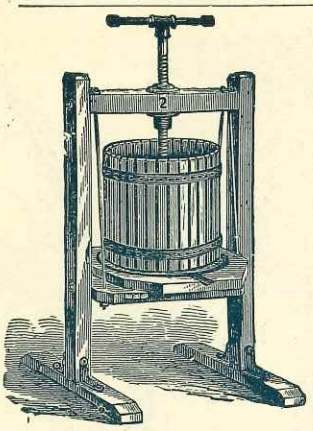
Farmer's Boiler.

Farmer's Boiler.

This is a Combined Furnace and Caldron, which is used for all boiling purposes.

Capacity.	For Wood Fuel.	Add for Cover.	Add for Coal Fixtures.
15 Gals.	$12.00	$2.50	$3.00
20 "	15.00	3.00	3.00
30 "	20.00	4.00	3.75
45 "	30.00	5.00	4.50
60 "	40.00	6.00	5.50
75 "	50.00	7.50	5.50
90 "	60.00	9.00	5.50

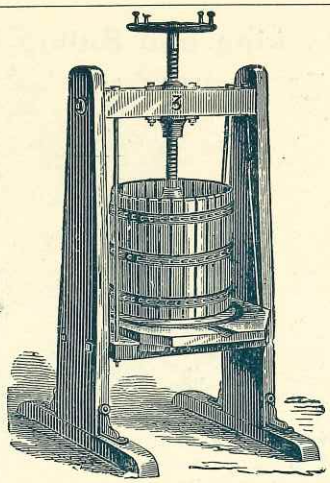
Wheels, per set of Four.....$4.00



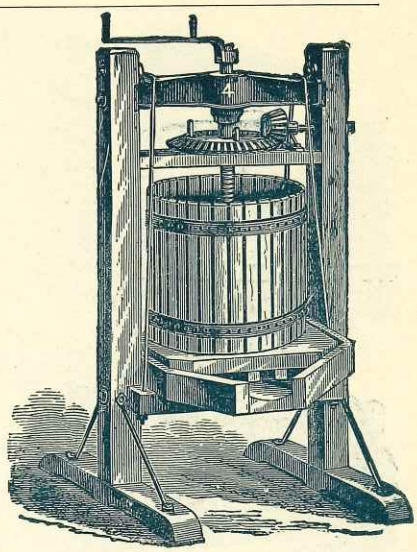
Wine Press Nos. 1 & 2.

These Cider and Wine Presses, with wrought iron screws are for general use.

No. 1.	Cap. about	2	Gals	.....	$4.50
" 2.	"	5	"	.....	5.50
" 2½.	"	7	"	.....	7.00
" 3.	"	8	"	.....	9.00



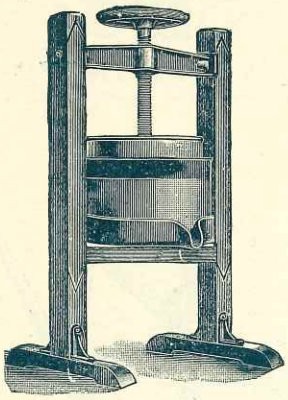
Wine Press Nos. 2½ & 3.



Wine Press Nos. 3½, 4 & 5.

These are strongly constructed and intended for heavy work. No. 3½ stands 48 ins. high. No.4 stands 58 ins. high. No. 5 stands 66 ins. high.

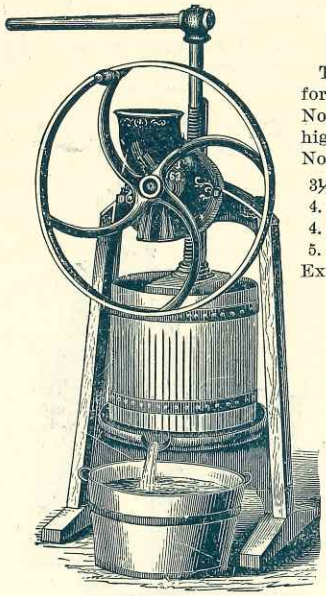
No.					
3½.	Capacity about	12	Gals., ungeared		$17.00
4.	"	12	"	"	25.00
4.	"	12	"	geared	30.00
5.	"	18	"	"	40.00
Extra for Hinged Hoop Curb					1.75



Lard Press Nos. 1 & 2.

The screw runs through a heavy cast iron cross beam. The cylinder and strainer are made of galvanized iron.

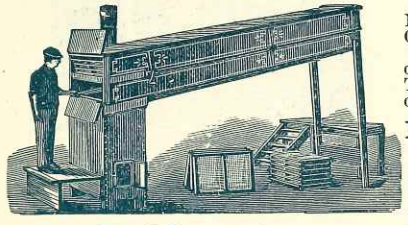
No. 1.	Cylinder,	12	in. diam	..	$ 7.50
" 2.	"	14	"	....	12.00
" 3.	"	16	"	....	21.00
" 4.	"	20	"	....	29.00



Single Tub Wine and Cider Mill.

No. 0.....$9.75 No. 1.....$11.50
Grinder only unmounted.. 7.50

The tub and balance wheel of No. 1 are larger than No. 0. The mill will grind 10 bushels of apples per hour.

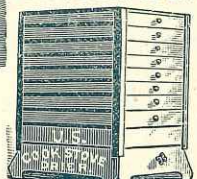


Fruit Evaporator.

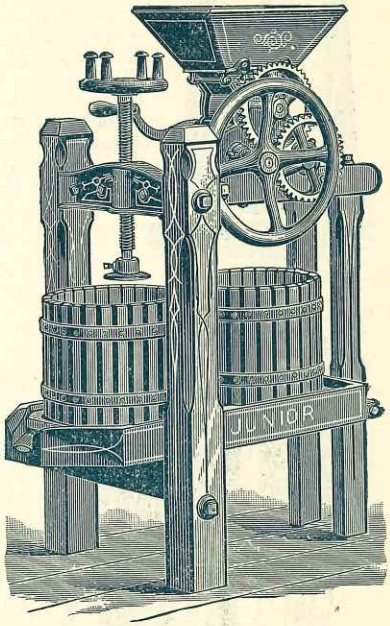
Numbers 0, 1 and 2 are termed the family sizes and are suitable for turning out from 3 to 12 bushels per day. Numbers 3, 4 and 5 comprise the large sizes. Capacities from 40 to 150 bushels per day, and besides fruit, they are used for Seeds, Drugs, Tea, Coffee and all products requiring curing.

No.	Size.	Weight.	Cap. pr.day	Price.
0	6 Feet.	200 lbs.	3 to 5 bush.	$35.00
1	6 "	350 "	6 to 8 "	75.00
2	9½ "	650 "	10 to 12 "	100.00

Fruit Drier or Evaporator.



Is constructed for use upon any kind of cook stove. The base measures 22 x 16 in., height 26 in., Weight 25 lbs. Has 8 galvanized wire cloth trays, giving 12 square feet tray surface. It is the simplest and most durable of its kind made. Fruit and vegetables of all kinds thoroughly evaporated in this drier. Price.....$7.00.

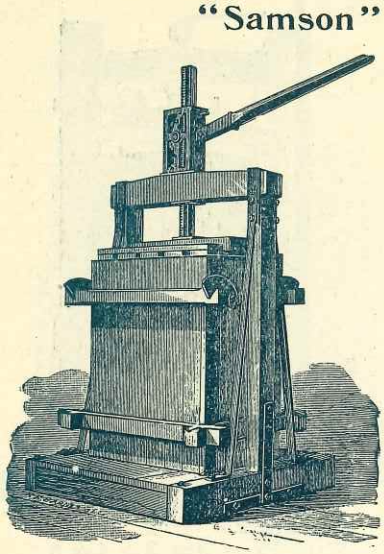


Double Tub Wine and Cider Mill.

	Capacity			
Junior,	1½ to 2	bbls.	cider per day	$15.00
Medium,	3 to 4	"	"	19.50
Senior	4 to 6	"	"	25.00

The Senior size has two cranks.

"Samson" Packing and Baling Presses.



No. 8 Packing Press.
With Regular Lever Jack.

These presses are strongly constructed of the best material, to stand great strain and are used for pressing in barrels, hogsheads and cases; Fruit, Tobacco, Dry Goods, etc.

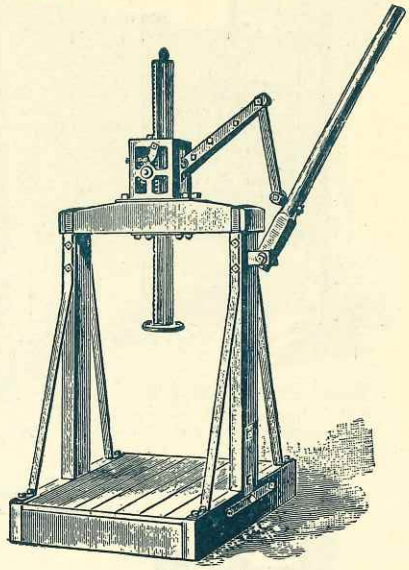
No. 8. Size of Platform, 48 ins. long by 36 ins. wide, Height from Platform to Cross-Beam, 52 ins. Weight, about 500 lbs.

No. 9. Size of Platform inside, 48 ins. long by 42 ins. wide. Height from Platform to Cross-Beam, 54 ins. Weight, about 600 lbs.

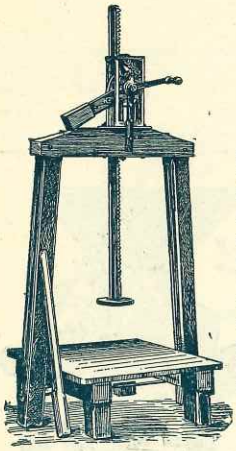
Both of the above presses can be made with boxes suitable for Baling Tobacco Leaf Stems, Manure, etc. etc.

No. 8 Packing Press.
With Regular Lever Jack.
Pressing capacity equal to 25 Tons.
Price, without Baling Box.....$45.00
Price, with Baling Box 70.00

No. 9 Packing Press.
With Compound Lever Jack.
Pressing capacity equal to 40 Tons.
Price, without Baling Box.....$60.00
Price, with Baling Box 85.00



No. 9 Packing Press.
With Compound Lever Jack.

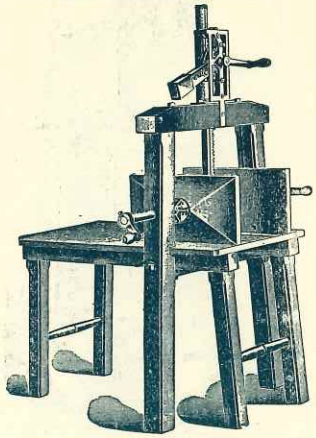


No. 11 Packing Press.

Designed especially for packing dried fruit in cases, and a good all-around press for other purposes.

Size of Platform 28 x 28 ins., 34 ins. from platform to cross-beam, and 11 ins. to 24 ins. to floor.

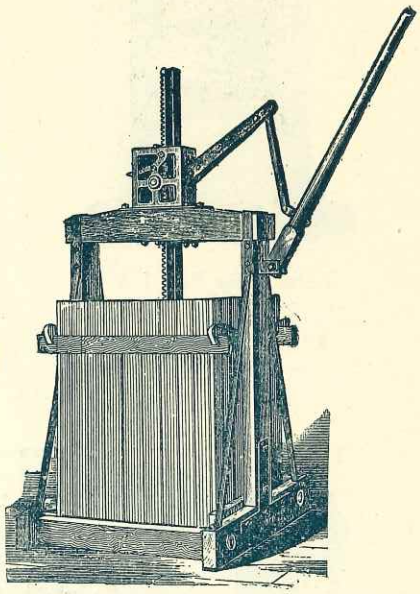
Price....$30.00



No. 22 Packing Press.

Is constructed with a large platform 46x28 ins. standing 30 in. from the ground with adjustable side pressure attachment which prevents the sides of box from bulging out when under pressure.

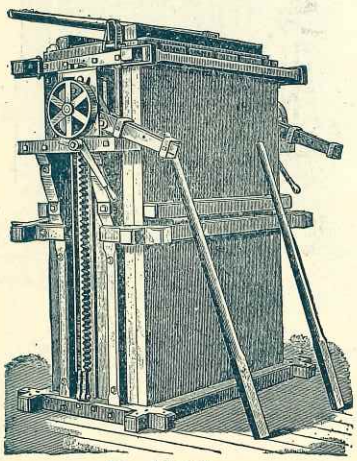
Weight about 275 lbs. Price, $45.00



No. 8½ Baling Press.
With Compound Lever Jack.

Especially adapted for baling Leaf Tobacco, Tobacco Stems, Stable Manure, and every kind of material requiring a fast working press. The doors are hung on a roll, and open on a level with the bottom of press, admitting of ready access to the bales for tying and removing same. Regular size makes a bale 28x20 in., but can be made any size desired up to 36x24 in. Weight about 700 lbs.

Price.....$75.00

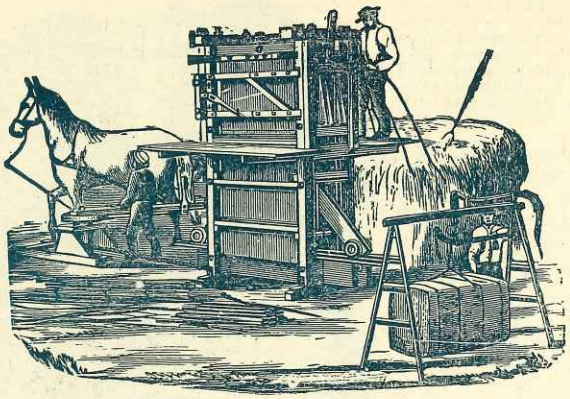


Double Lever "Samson" Baling Press.

This is an up working Samson Press, having two Levers to be operated by two or more men, has a great pressing capacity, is entirely free from complications and not liable to get out of order.

REGULAR SIZE for Rags, Paper Stock, Box Clippings, &c., Makes bale 48 in. x 24 in. wide and will press up to 16 ins. between followers. Depth of box, 5½ feet. Weight about 1500 lbs.
Price.....$100.00

SPECIAL SIZE for Hair or or other material requiring small bales. Makes bales 30 or 36 in. x 18 in. wide as ordered, and will press up to 16 ins. between followers. Depth of box 5½ feet. Weight about 1300 lbs.
Price.....$90.00



Portable Lever Horse Power Baling Press.

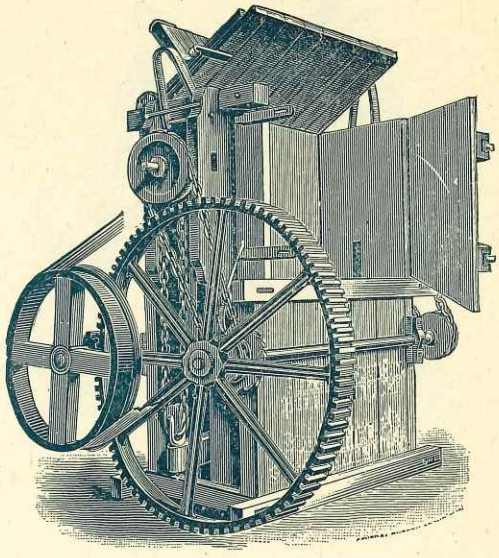
For Hay, Straw, Cotton, Hemp, and general Baling purposes.

These Presses are substantially made and are built of sufficient strength adapted to their size and capacity. They are operated by the Patent Capstan and Rope as illustrated.

Size No. 2 has 7 ft. depth of Box. Bale 3 ft. 10 in. long. 28 in. wide x 22 in. deep.....$250.00

Size No. 1 has 8 ft. depth of Box. Bale 3 ft. 8 in. long, 28 in. wide x 22 in. deep, or 21 x 21 in..... 275.00

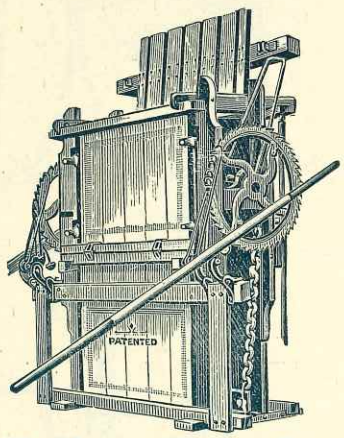
They are also made with 9 ft., 10 ft. and 12 ft. depth of Boxes.



Steam Power Baling Press.

For Baling Cotton, Hemp, Paper, Rags, Waste, etc.

Size.	Depth of Box.	Size of Bale.	Weight of Bale in lbs.	Weight of Press.	Price.
No. 1	6 Ft.	48 x 25 in.	500 to 700	2500 lbs.	$300
" 2	7 "	54 x 27 "	700 "1000	3000 "	350



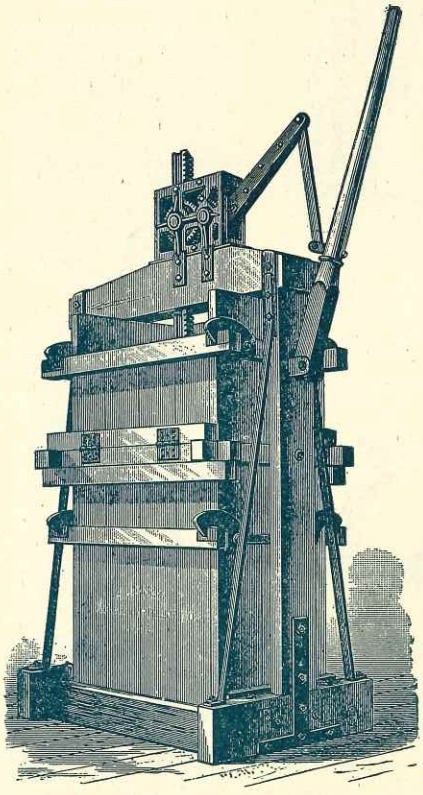
The "Imperial" Baling Press.

For Hay, Straw, Rags, Wool, Cotton, etc. For strength, simplicity and rapidity in operating has no superior. Every press is set up and thoroughly tested before leaving the factory.

No. 1 Press for Hay makes a bale 42 ins. long, 20 ins. wide and 20 ins. deep, weighing 100 to 125 lbs. Height of box, 6 feet. Price.....$80.00

No. 2. Makes a bale 48 ins. long, 24 ins. wide and 30 ins. deep, weighing about 200 lbs. Height of box, 7 feet. Price..... $85 00

No. 3. Press for Cotton makes a bale 56 ins. long, 28 ins. wide and 32 ins. deep, weighing 500 to 600 lbs. Height of box, 9 feet. Price.....$160.00



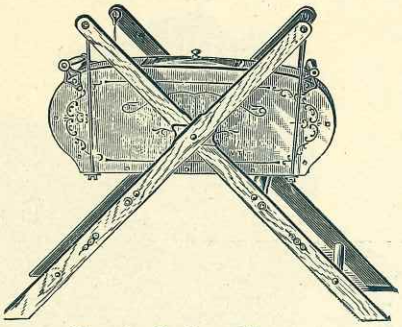
Samson Single Lever Baling Press.

The "Samson" Press, as illustrated, is acknowledged to be the most powerful single lever baling press in the market, and is used for all purposes where a pressure of not over 50 tons is required.

The power is furnished by a double-geared compound lever jack, and is constructed entirely of malleable iron and steel. Can be operated by one man to good advantage.

The regular size makes a bale 34 inches long by 20 inches wide, and other sizes built to order to suit different requirements. Weight about 1250 lbs.

Price.....$95.00



Davis Swing Churn.

This Churn has no dasher and hence it is much handier to clean after being used. The churning is done by a swinging motion, which will bring the butter by simply moving the mass, the particles of cream coming in contact with each other only.

No. 1,	7 gals.,	will churn	3 gals.	or less		$7.00
" 2,	10 "	"	5 "	"		8.00
" 3,	16 "	"	8 "	"		10.00
" 4,	24 "	"	12 "	"		12.00
" 5,	30 "	"	15 "	"		15.00
" 6,	40 "	"	20 "	"		18.00
" 7,	60 "	"	30 "	"		25.00
" 8,	80 "	"	40 "	"		30.00
" 9,	100 "	"	50 "	"		35.00

Iron Y for attaching power, Nos. 1 to 4 .75
" " " " " " 5 & 6 1.00
" " " " " No. 7 1.25
" " " " " " 8 1.50
" " " " " " 9 1.75

Nos. 7, 8 and 9 are hung in strong, square frames, or suspended from the ceiling, especially for factory use.

Lightning Churn.

This Churn takes the place of the cylinder style where a more substantial built churn is called for.

No. 0,	will churn	2 gals.	or less			$3.00
" 1,	"	"	3 "	"		3.50
" 2,	"	"	4 "	"		4.00
" 3,	"	"	5 "	"		4.50

Cylinder Churn.

This cut represents the cheapest churn made that has a revolving dasher.

No. 1,	holds 2¾	gallons		$2.50
" 2,	" 4	"		3.00
" 3,	" 7	"		3.50
" 4,	" 10½	"		4.00
" 5,	" 15	"		5.00

Churn half the capacity.

The "Blanchard" has retained its reputation for over 20 years, as being the best revolving dash churn made, in points of material, workmanship, easy operating and superior butter making qualities.

Family Sizes.

No. 3.	for 2 gals		$6.00
" 4,	" 4 "		7.00
" 5,	" 8 "		8.00
" 6,	" 12 "		10.00
" 7,	" 16 "		12.00

Power pulley for family size churns 3.25

Factory Sizes.

CYLINDRICAL.

Size.	Will Churn	Price.
No. 7½	30 Gals.	$35.00
" 8	50 "	40.00
" 9	75 "	45.00
" 10	100 "	50.00
" 11	150 "	60.00

SQUARE.

Size.	Will Churn	Price.
No. 1	50 Gals.	$28.00
" 1½	75 "	30.00
" 2	100 "	33.00
" 2½	125 "	35.00
" 3	150 "	40.00

Four larger sizes are made.

The "Double Lever" Churn is simple in construction; no crank to turn, little or no strength required; move the lever back and forth and the barrel immediately revolves.

By a simple device the barrel can be secured to the frame and the Churn wheeled about at pleasure, being mounted on two good size castor wheels.

No. 0, holds 6 gals., churns 3 gals. or less $8.00
No. 1, holds 10 gals., churns 5 gals. or less $8.50
No. 2, holds 15 gals., churns 7 gals. or less $9.00
No. 3, holds 20 gals., churns 10 gals. or less $10.00

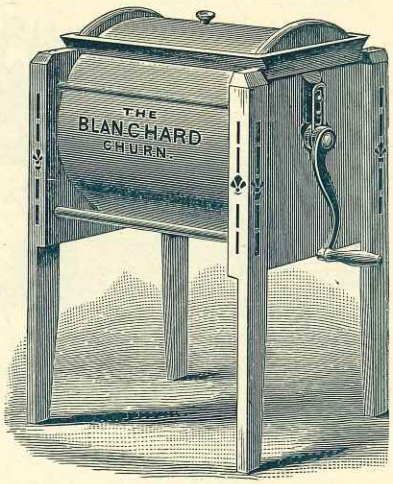
Something novel in Churns. An Aerator, Separator and Churn combined. Simple, practical and easily operated.

It makes butter in from one to ten minutes with less labor than any churn ever invented. It increases the yield from ten to twenty per cent. and makes a perfect granulated butter, operates as quickly and thoroughly on Sweet Cream as it does with Soured. It has a record of thirty-two seconds.

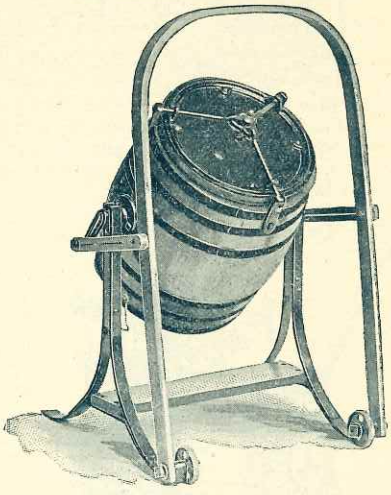
Write for Testimonials.

No. 1,	holds 3 gals.			$6.00
" 2,	" 5 "			8.00
" 3,	" 10 "			12.00

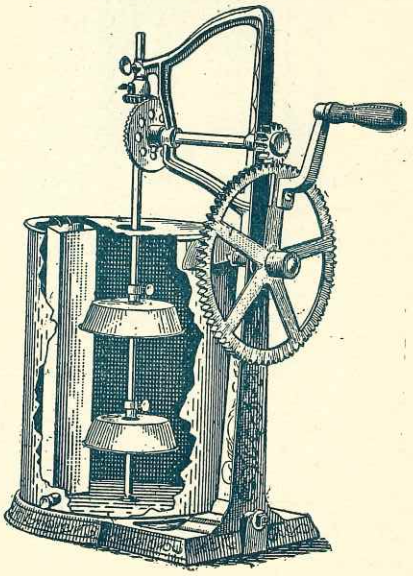
Churns two-thirds the capacity or less.



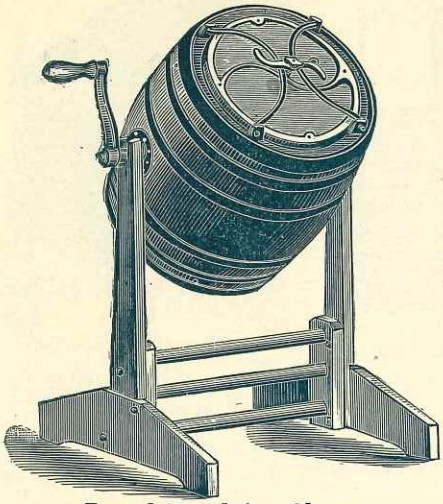
The Blanchard Churn.



The "Double Lever" Churn.



Improved Aerating Churn.

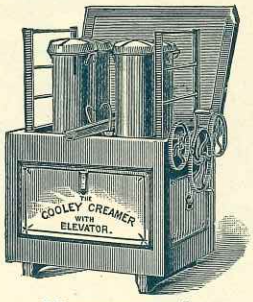


Barrel Revolving Churn.

No.	CHURNS.	No.	CHURNS.
0.	2 Gals. or less, $8.00	5.	16 Gals. or less, $16.00
1.	4 " " 8.50	54.	20 " " 24.00
2.	7 " " 9.00	6.	30 " " 26.00
3.	9 " " 10.00	7.	37 " " 30.00
4.	12 " " 12.00	8.	45 " " 35.00

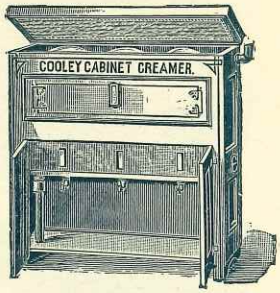
Pulleys for Power Extra. Prices according to size.

The **"Cooley Creamers"** are acknowledged to be the best apparatus of their kind made. They are highly recommended by parties who have used them for years, which is a guarantee of their superior merits. The "Elevator" and "Cabinet" styles are the favorites. The cans are 19x8½ inches. Capacity, 18 quarts.



Elevator Style.

No.		
0.	Not manufactured....	
00.	2 cans, 4 to 6 cows....	$32.00
1.	Not manufactured....	
2.	4 cans, 9 to 12 cows...	45.00
3.	6 " 12 to 18 " ...	57.00
4.	8 " 18 to 24 " ...	68.00
5.	10 " 24 to 30 " ...	79.00
6.	12 " 30 to 36 " ...	93.00
7.	14 " 36 to 42 " ...	105.00
8.	16 " 42 to 48 " ...	117.00



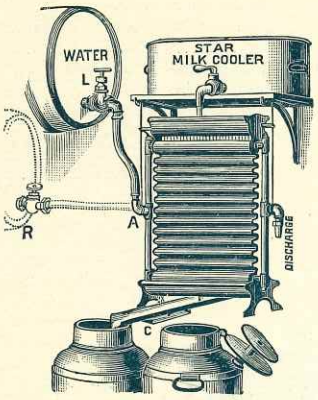
Cabinet Style.

No.		
0.	1 can	$20.00
00.	2 cans	27.00
1.	3 "	33.00
2.	4 "	40.00
3.	6 "	52.00
4.	8 "	64.00
5.	10 "	75.00
6.	12 "	85.00

No. 2 and larger have 2 rows of cans, and doors on each side.

FAMILY CABINET STYLE.

No. A.	2 cans, (half capacity large cans)	$20.00
" B.	3 " " "	26.00
" C.	4 " " "	32.00
Special Refrigerators in any size of Cabinet Creamer (extra)		5.00
Partition in Cabinet Creamers (extra)		1.00



Star Milk Cooler.

Nos. 1, 2 and 3.

This apparatus is designed for cooling with water, Milk and Cream automatically and quickly without the use of Ice, at any season of the year.

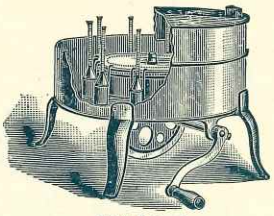
They are constructed of Copper sheets and Brass castings, heavily tinned, and have *surface enough* to do the work claimed in *hot weather*. There is, of course, no rust out to them, and they will last a lifetime.

	Per hour.	Fixed Trough	Removable Trough.
No. 0.	50 Gals.....	$15.00.....	$16.00
" 1.	60 "	25.00.....	26.00
" 2.	90 "	27.50.....	28.50
" 3.	120 "	40.00.....	42.00

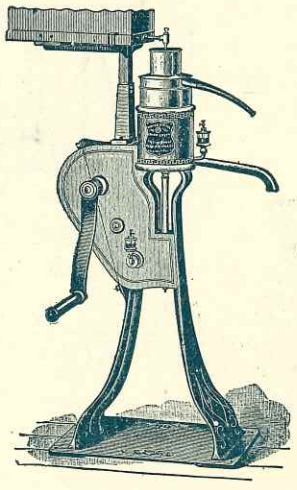
Price includes 20-qt. Tank, Milk Faucet, Brackets, Screws, Hose and Barrel Connection.

Syphons, for producing a continuous flow of water from spring or other water supply below level of cooler, extra..... $5.00

We also make an all-tin Cooler with 18-qt. Tank and Barrel connection. Capacity, 50 gal. per hour $6.75



STYLE A.



Babcock Milk Tester.

4 bottles....	$8.00	12 bottles....	$14.00
6 "	9.00	16 "	18.00
8 "	10.00	20 "	20.00
10 "	12.00	30 "	24.00

With Galvanized Iron Castings, additional 1.00

With each machine is included directions for operating a full set of standard size milk bottles, pipette, acid measures and acid sufficient to make 50 to 100 tests.

U. S. Cream Separator.

This cut illustrates the No. 5 Separator. The construction of the interior is not complicated, has few parts to clean, and does the most thorough skimming or separating of Cream from the Milk.

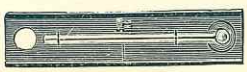
	Prices.
No. 7. Midget Separator, capacity, per hour, 200 to 220 lbs.....	$75.00
No. 6. High Frame Separator, capacity per hour, 250 to 300 lbs.....	100.00
No. 5. High Frame Separator, capacity per hour, 350 to 400 lbs.....	125.00
No. 3. Low Frame Separator, capacity per hour, 600 to 700 lbs.....	200.00
No. 3. High Frame Separator, capacity per hour, 650 to 700 lbs.....	225.00
No. 2. Separator, capacity per hour, 1000 to 1300 lbs.....	350.00

The Nos. 3, 5, 6 and 7 machines have attachments for either hand or power as ordered.

No. 3. Low Frame with Ratchet and Loose Pulleys and Belt Shifter, Extra... $6.00

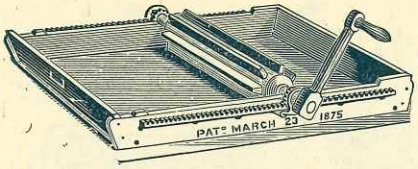
Nos. 3, 5, 6 and 7, with Ratchet and Loose Pulleys. Extra..... 5.00

No. 3, 5, 6 and 7, with Power Ratchet Pulley Attachments. Extra..... 2.50



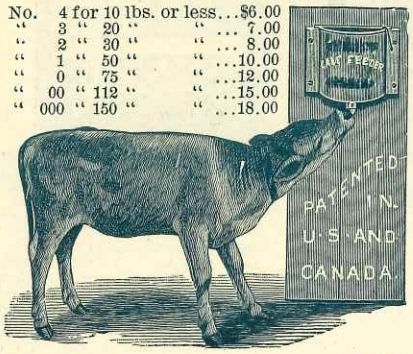
Wood Back Churn Thermometer, 10c.

All Glass. Floating Thermometer, 25c.

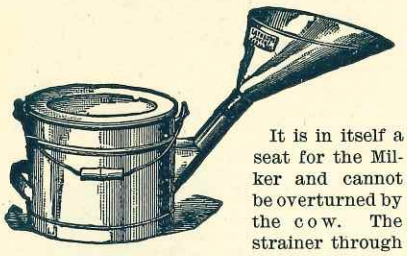


Butter Worker.

No.	4 for 10 lbs. or less		$6.00
"	3 " 20 "	"	7.00
"	2 " 30 "	"	8.00
"	1 " 50 "	"	10.00
"	0 " 75 "	"	12.00
"	00 " 112 "	"	15.00
"	000 " 150 "	"	18.00



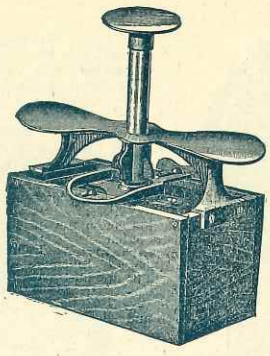
Calf Feeder..... .$2.50



The "Perfect" Milk Pail.

It is in itself a seat for the Milker and cannot be overturned by the cow. The strainer through which it passes before entering the pail is fixed in the rubber tube in the lower end of the funnel.

Price.....$2.00

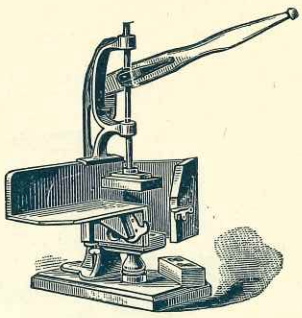


Eureka Butter Printer.

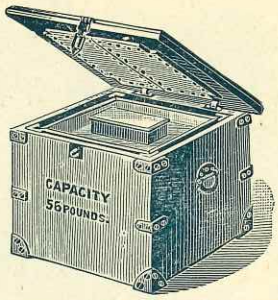
This improved Butter Mould and Stamp is self-weighing or gauging.

Gives accurate weights when rightly adjusted. Prints pounds 4⅝x2½x2¾ inches. Prints half pounds 4⅝x2½x 1 3-16 in.

Price, with plain (uncarved) print block $3.50



Self-Gauging Butter Press.



Improved Butter Shipping Box.

These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in centre, which can be removed at will and the space utilized.

Holds.

12–1 lb.	Prints	$3.50
20–1 "	"	3.75
30–1 "	"	4.25
40–1 "	"	4.75
56–1 "	"	5.00
80–1 "	"	5.50
96–1 "	"	5.75
120–1 "	"	6.00

Self-Gauging Butter Press.

With one box and print (either 1 lb. or ½ lb.) $10.00

With both pound and half-pound boxes and print..... 13.50

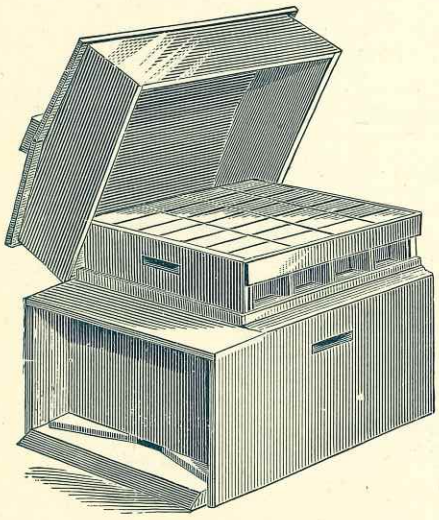
Initial or Monogram, extra. net..... 1.00

Regular size of 1 lb. print, 4¾ in. long by 2½ in. wide.

Regular size of ½ lb. print 3⅝ in. long by 2¼ in. wide.

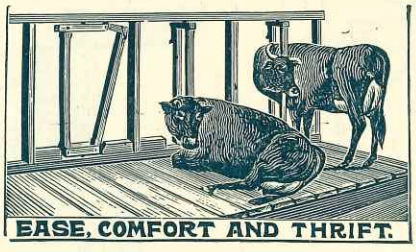
Parchment Paper for Butter Prints.

	Per 1000 sheets.
1 lb. size, 8 in. by 11 in.	$1.15
1 lb. " 9 " 12 "	1.45
½ lb. " 6 " 9 "	.75



Bee Hive.

Story and half hive (as illustrated).....$3.50
Two story hive..... 5.00



Swing Cattle Stanchions.

The most practical, useful, cheapest and best fastening invented, adjusts itself when open so that the animal cannot turn it when backing out, and locks itself when closed.

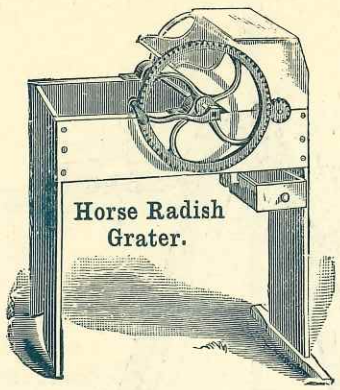
Price, $1.50 each.

Sheep and Hog Label.

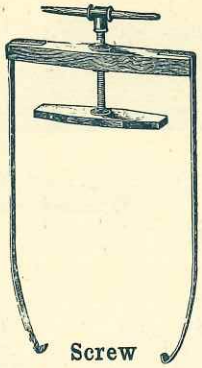
Cattle Labels, 2/3 Actual Size.

These labels are numbered on one side, and have initials, name, or name and address, on the other.

						each.
Cattle Label,	75c.	per doz.,	$4.00	per 100;	Punches..	$1.50
Calf "	60c.	"	3.00	"	" ..	1.25
Sheep "	40c.	"	2.00	"	" ..	1.00

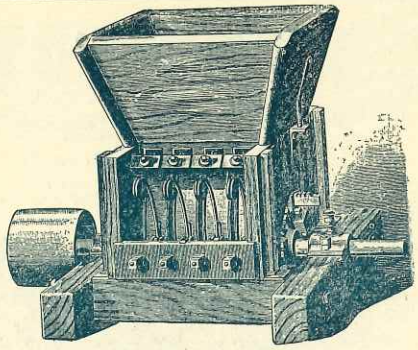


Price.....$9.00
Box Grater, without Legs..... 7.00
Add for grating cylinders if fitted with steel pins.....$2.00



Screw Barrel Heading Press.

Price.....$1.50

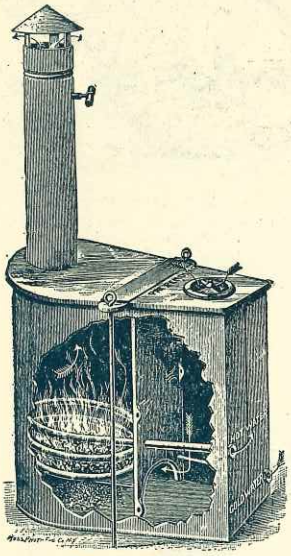


Apple Grinder.

This machine does its work thoroughly, is easily adjusted, works fast, grinds fine and feeds itself without clogging. In addition to Apples, it will grind Grapes, Peaches, Cocoanuts, Beets and other succulent roots and fruits equally well.

No. 1, Favorite size, with two horse power will grind 100 bushels of apples per hour. Has 6 in. diam. pulley. Rev. 1200 to 1800 per minute.
Price.....$60.00

No. 2, Farmers' size, with one horse power will grind 50 bushels per hour. Has a 5 inch diam. pulley. Rev. 2000 per min. Price, $45.00

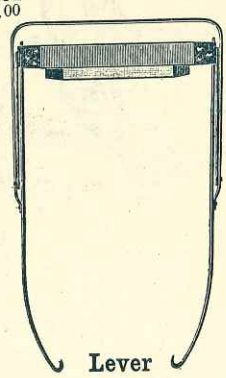


Tank Heater.

Has heavy cast iron Top, Grate and Lining, to be operated with wood, soft coal or cobs.

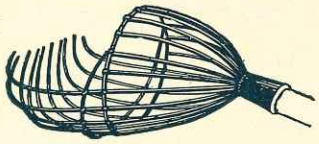
A ¾ in. water pipe, 10 ft. long, is coiled inside the fire box into which cold water is taken, and discharged boiling hot.

Price.....$8.50



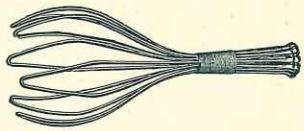
Lever Barrel Heading Press.

Price.....$1.50



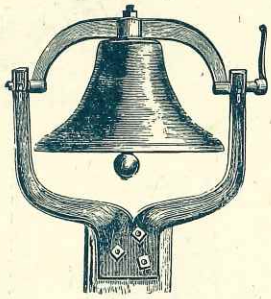
Fruit Picker No. 2.

Plain.....$0.50
Handled.... .70



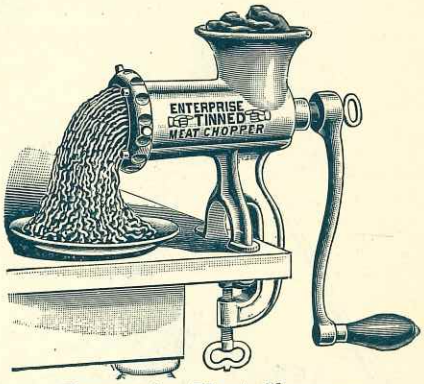
Fruit Picker No. 1.

Plain.....$0.40
Handled... .60



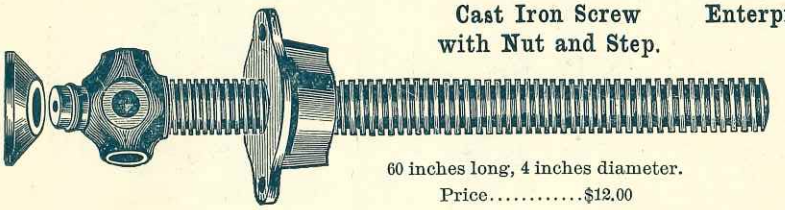
Farm Bells.

No. 1, 15 in. $2.75 | No. 3, 19 in. $4.75
" 2, 17 " 3.50 | " 4, 21 " 6.25



Enterprise Meat Choppers.

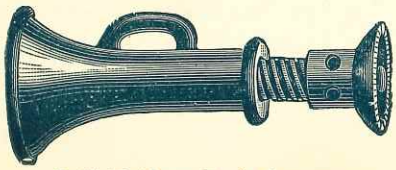
No.	Chops per minute.	Price.
2	1 lb.	$1.50
5	1 "	2.00
4	1½ "	2.00
12	2 "	2.50
6	2 "	2.75
10	2 "	3.00
8	3 "	4.00
22	3 "	4.00
20	3 "	5.00
32	4 "	6.00
42	5 "	15.00
33	Bait Chopper	6.00



Cast Iron Screw with Nut and Step.

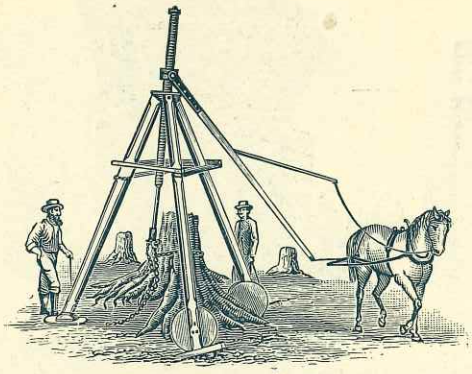
60 inches long, 4 inches diameter.

Price.....$12.00



Bell Bottom Jack Screws.

Diam. of Screw.	Length Barrel.	Price.	Diam. of Screw.	Length Barrel.	Price.
1¼ in.	6 in.	$2.50	2¼ in.	10 in.	$7.00
1½ "	8 "	3.50	2¼ "	14 "	8.00
1½ "	10 "	3.75	2¼ "	16 "	9.00
1¾ "	8 "	3.75	2¼ "	20 "	10.00
1¾ "	12 "	4.50	2¼ "	24 "	12.00
1¾ "	16 "	5.90	2½ "	10 "	8.00
2 "	10 "	4.75	2½ "	12 "	8.50
2 "	14 "	6.00	2½ "	16 "	9.50
2 "	16 "	7.00	2½ "	20 "	11.00
2 "	20 "	8.00	2½ "	24 "	13.00



Screw Stump Puller.

The above is designed for pulling all classes of Stumps by Horse Power. The screw has a double thread bevelled, and has more bearing and less friction than a single square thread. Two of the legs are supplied with wheels, the third one with a shoe and draw-hook, to which a horse can be hitched for moving the Puller from stump to stump.

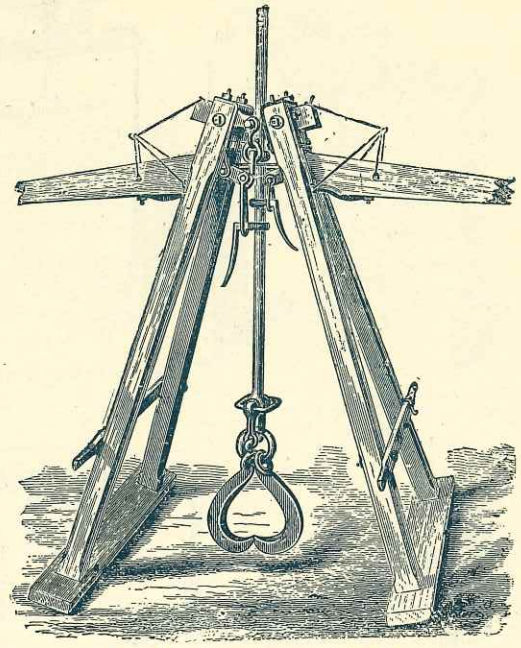
Each machine is furnished with a root chain for attaching to the stump to pull it, also a wrapping chain to wrap the stump and prevent its splitting. From four to six revolutions of the horse around the machine raises the stump one foot. Requires only one man and one or two horses to work it, and pulls the largest stumps with ease.

WROUGHT SCREW MACHINE.

Size.	Height of Machine.	Diam. of Screw.	Weight of Irons	Weight Complete.	Price Iron Only.	Price Complete.
No. 1	12 Feet	2½ in.	500 lbs	1000 lbs	$75.00	$95 00
" 2	16 "	3 "	800 "	1600 "	100.00	125.00
" 3x	18 "	3½ "	1100 "	2400 "	125.00	150.00
" 4	18 "	4 "	1300 "	2800 "	150.00	175 00

CAST SCREW MACHINE.

No. 2	16 Feet	4 in.	900 lbs	1700 lbs.	100.00	125.00
" 3x	18 "	5 "	1200 "	2500 "	125.00	150.00
" 4	18 "	6 "	1400 "	2900 "	150 00	175 00



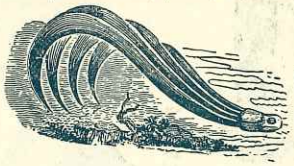
Double Lever Stump Puller.

In operating, the levers are worked up and down like pump-handles till the stump is extracted

The small-sized machine is strong enough to raise 25,000 lbs., light enough to be moved easily by two men and can pull 75 to 100 stumps per day.

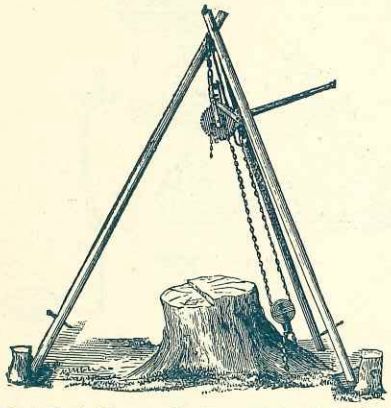
The next size, worked by three men, will raise 35,000 lbs., while the largest size, worked by four men, will raise 50,000 pounds.

Price, Small Size, $45.00, Medium, $65.00, Large, $85.00.



Root and Brush Pullers.

With 2 Prongs, .$4 50
" 3 " 5.50
" 4 " 6.50



Ratchet Stump Puller & Rock Lifter

The above illustrates one of the simplest and most efficient devices ever invented for pulling stumps, lifting stones and handling all kinds of heavy bodies.

Heavy rock of 4 or 5 tons can be readily raised and moved by one man. The tripod stands 12 feet high, the wood lever is 6 feet long. By applying a single pulley attachment, as shown in cut, it doubles the power, and a double pulley added to this combination will increase the power four-fold.

This Machine with Loop, Pin and Hook (for attaching to tripod), Levers, Steel Hooks and 11 feet of ⅝ in. Cable Chain. Price.....$30.00
With Tripod 35.00

Lock Lever Digger, No. 1.

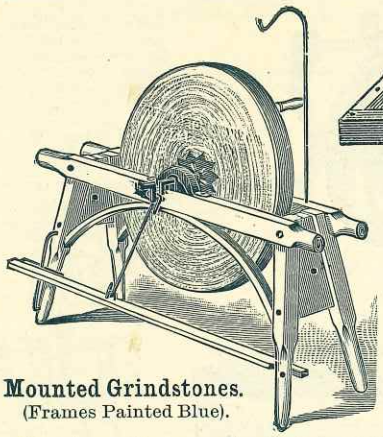
Regular size digs to a depth of 3 feet. Price.....$1.75
They are also made to dig 4 ft., $2.75, 5 ft. 3.75, 6 ft. 4.25

Post Hole Digger No. 2.

The blades are nine inches long, and the handles five feet long. Price.....$1.25

Electric Spud.

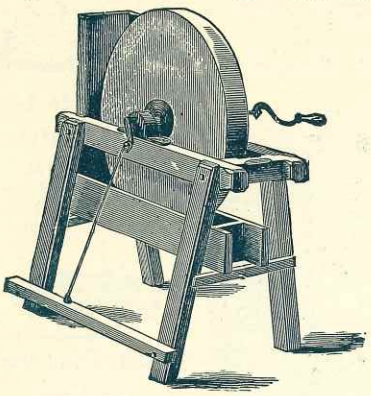
For digging holes. Blade 12x 5 in. handle 8 ft lg. Price 2.50



Mounted Grindstones.
(Frames Painted Blue).

The above illustrates the lowest priced Mounted Grindstone on our list.

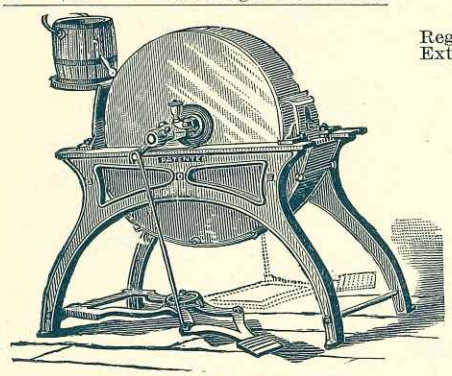
No. 1, Stone weighs about 100 lbs.....$4.00
" 2, " " " 70 " 3.60
" 3, " " " 55 " 3.30



Mounted Grindstones.

The stones are fitted with extra heavy fixtures, mounted upon frames of selected hard wood put together with lag screws having splash board and water trough.

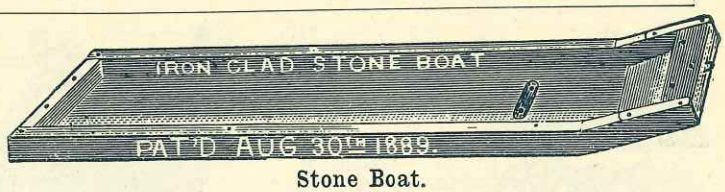
Diam.	About	Price	Diam.	About	Price
18 in.	50 lbs.	$5.50	26 in.	120 lbs.	$7.50
20 "	60 "	5.75	28 "	140 "	8.00
22 "	80 "	6.25	30 "	160 "	8.75
24 "	100 "	7.00	Larger sizes to order		



Mounted Grindstones.

The above illustration represents Grindstone mounted in a neat cast iron frame arranged for either hand, foot or other power.

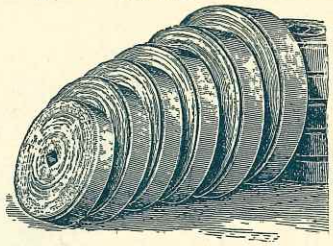
Power Applied by	Treadle or Pull'y	Treadle & Pull'y	Pulley	Pulley.	Pulley.	Pulley.
Price.....	$16.50	$18.50	$18.00	$22.00	$25.00	$48.00
Size of Stone..	24x2½	24x2½	24x3	27x3½	30x4	36x5
Shield&Bucket	$1.20	$1.20	$1.20	.....	.....	.....
Hand Crank..	0.60	0.60	0.60	0.90	0.90	.....



Stone Boat.

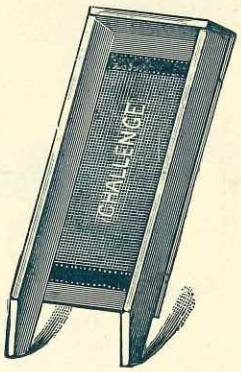
This cut represents a Stone Boat or Drag, built of the best seasoned timber, clad with steel and thoroughly bolted together, making it one of the best Stone Boats manufactured.

		Price.
No. 1.	Size, 6 ft. 0 in. long by 2 ft. 4 in. wide. Weight, 130 lbs.	$6.50
" 2	" 7 ft. 4 in. " by 2 ft. 6 in. " " 160 "	7.50



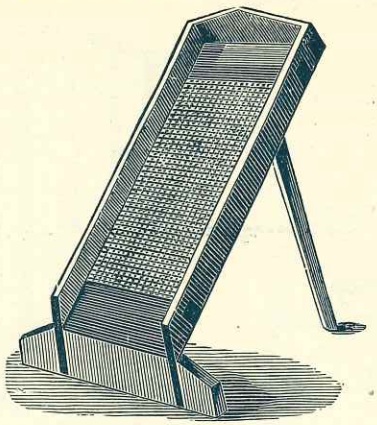
Unmounted Grindstones.

Regular stock sizes, 2½ cents per lb. Stones for factory purposes in various grits, and all sizes up to 8 feet diameter. Special prices.



Steel Wire Coal Screens.

No. 22, 29x71 ins.....$7.50
Any Mesh Furnished.



Standard Steel Wire Coal Screens.

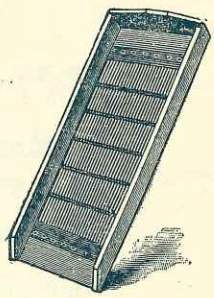
With Foot Board and Leg.

Regular 31 x 74 ins.....$14.25
Extra 34 x 81 ins..... 17.25

Without Foot Board and Leg.

Regular 31 x 69 ins..... $12.00
Extra 34 x 76 ins..... 15.00

All meshes are furnished at same price.

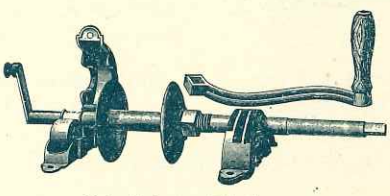


The "D" Sand Screen.

The Wires are kept securely in place by the supporting cross rods passing through loops in the wires at the back of the screen which firmly keeps the meshes in form, there being no loose wires to give out. It is the best screen made, and will out wear all others. Nos. 3 and 4 are the Meshes generally used. Nos. 5 and 6 being for fine and very fine sand.

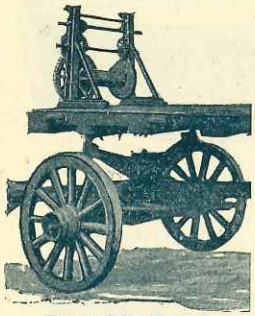
Small size, 22 in. by 60....$5.50

Large size, 26 in. by 66....$6.75



Grindstone Fixtures.

Medium with 15 in. Shafts.....	per set,	$	.50
Heavy " 17 " "	"		.80
Ex. " 17 " "	"		1.50
" " 20 " "	"		1.65
Medium Shafts with Flanges.....	each,		.30
" Cranks.....	"		.15
Heavy Shafts with Flanges.....	"		.50
" Cranks.....	"		.20
Ex. Heavy 17 in. Shaft with Flanges	"		.65
" 20 " " " "	"		.80
" Cranks.....	"		.30



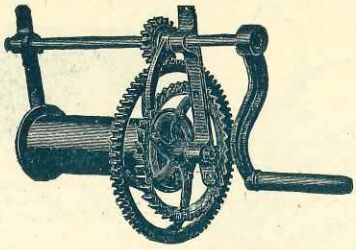
This is a Portable Windlass with double Purchase and can be put on any truck, can also be used as a Winch by bolting it to a frame.

No. 1. Weight, 200 lbs., Price, $42.00
No. 2. Weight, 300 lbs., Price, 48.00

MOUNTED ON WOOD FRAME.

No. 1. Weight, 250 lbs., Price, $46.00
No. 2. Weight, 350 lbs., Price, 56.00

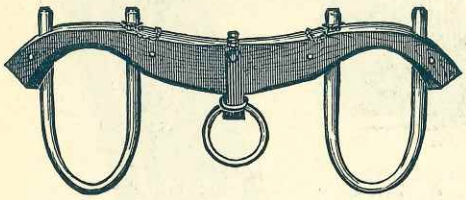
Portable Truck Windlass.



Windlass No. 11.

Styles Nos. 11 and 13 are made with drums 15 ins. long x 5 in. diam. No. 12 has cranks both sides, drum 20 ins. long fitted in an upright frame 32 ins. high. See page 62. The 3 sizes can be used either *single or double geared.*

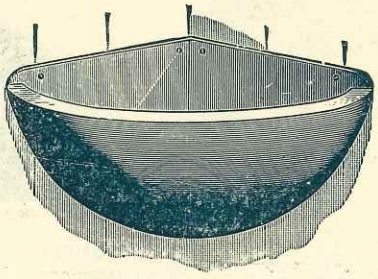
No. 11. Weight, 65 lbs., Price, $8.75
No. 13. Weight, 100 lbs., Price, 12.00
No. 12. Weight, 135 lbs., Price, 15.50



Ox Yokes.

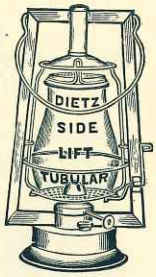
This cut shows the style most in demand. They are strongly ironed and have bows made from selected Hickory.

No.					
1,	17 in.	on the neck, by	19	in between the bows,	$6.00
2,	7½ "	"	20	" "	6.75
3,	8 "	"	21	" "	7.00
4,	8½ "	"	22	" "	7.50
5,	9 "	"	23	" "	8.00
6,	9½ "	"	24	" "	8.50
7,	10 "	"	35	" "	9.25
Best Bows,	1¾ inch			Per pair,	1.00
" "	2 "			"	1.25



Cast Corner Manger.

Price.....$1.10



Side Lift Lantern.

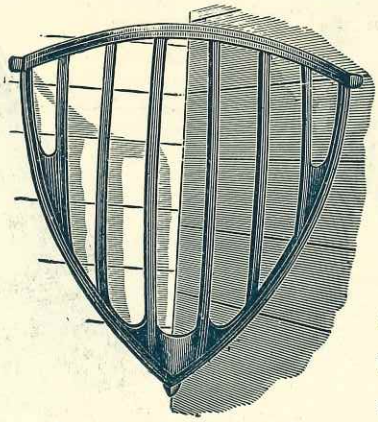
$ .50

With Red Globe, $ .60

Whiffletrees.

The above are made of the best Hickory, and used for plowing and other purposes.

Wagon Whiffletrees for Two Horses...	per set,	$2.50
Double Whiffletrees for Two Horses, Heavy.....	" "	2.50 3.00
Single Whiffletree for One Horse, Heavy.....	each, "	.70 .80
Neck Yokes.....$1.00, Light,	"	.65



Cast Corner Hay Rack.

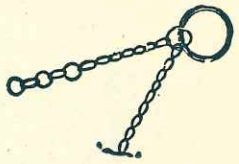
Price..$1.30 Wrought Iron..$1.50

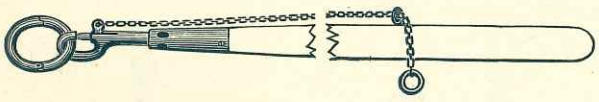
Tethering Pin and Chain.

Pin with 20 ft. Pat. Steel Chain..... $1.20
Pin with 30 ft. Pat. Steel Chain..... 1.50
Pin only..... .50

Cow Tie Chains.

	Each.
Close Ring and T.....$	.25
Open " " T.....	.27
" " " Snap....	.32
Ohio and T.....	.30



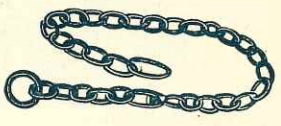


Copper Bull Rings.

2½ in., 25c.; 3 in., 30c. each.

Bull Leader, Handled.

$1.50 each.



Trace Chain.

	per pair
Straight Link and Hook.....$	.55
Twist " " "	.60

Ox Chains. 10 feet long.

Long Link of $\frac{5}{16}$ in. iron...each, $	1.00
" " $\frac{3}{8}$ " ... "	1.50
" " $\frac{7}{16}$ " ... "	1.75

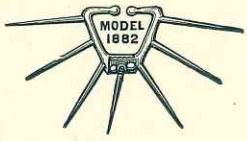
Log or Rock Chain.

15 ft. long, Heavy Short Link, ea. 3.00

Rice's Patent Weaners.

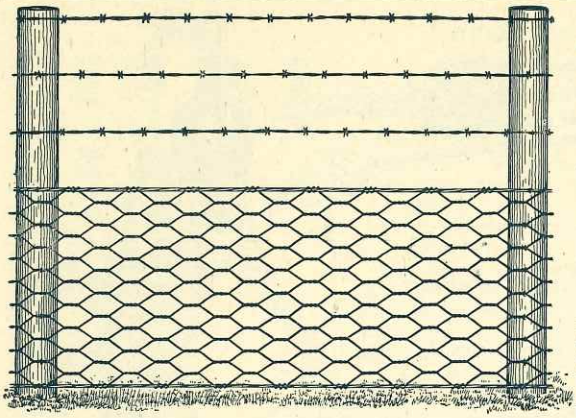
For preventing Calves and Cows sucking themselves or each other.

	each.
No. 1. For Calves till 1 year old..... $	.30
No. 2. From 1 to 2 years old	.50
No. 3. For full grown animals	.75



Prong Weaners.

For Calves.....$ .30 each.
" Cows..... .40 "



Web Steel Wire Fencing

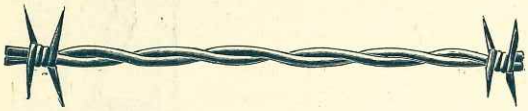
For Sheep, Cattle, Farm and Lawn.

Illustration shows the Web Fencing at the bottom with barb wire run on top. Meshes of No. 14 Wire, and three strand selvages of No. 13 Wire, all galvanized before weaving.

In Bales 20 Rods (330 Ft.) Long.

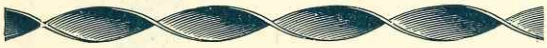
3 x 6 in. Mesh.		4 x 8 in. Mesh.	
Wide.	Per Rod.	Wide.	Per Rod.
26 in. (8½ meshes)	$ .82	26 in. (6½ meshes)	$ .68
38 " (12½ ")	1.06	34 " (8½ ")	.80
50 " (16½ ")	1.30	50 " (12½ ")	1.04

Other Widths to Order.



Galvanized Barb Fence Wire.

About 17 feet to the pound, on spools of 50 lbs. or 100 lbs.

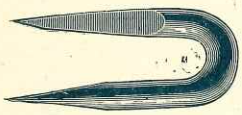


Galvanized Ribbon Fence Wire, ½ in. Wide.

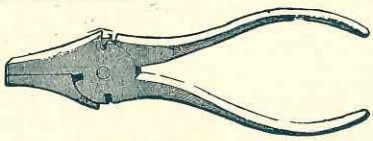
About 10 feet to the Pound.

Galvanized 2-Ply Cable Fence Wire.

About 19 feet to the Pound.

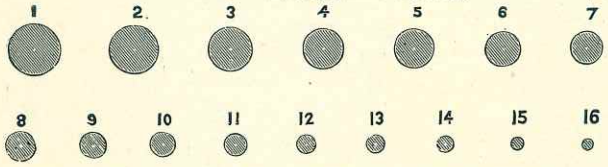


Fence Wire Staples.



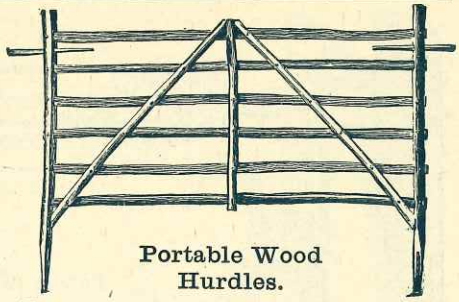
Combined Pliers and Cutters.

6 in.....$ .70 8 in.....$ .90 10 in....$1.20



Worcester Gauge Sizes of Iron and Steel Wire.

This is furnished in bundles of 63 pounds each, both plain and galvanized. It also comes in smaller and larger size gauges than those illustrated.

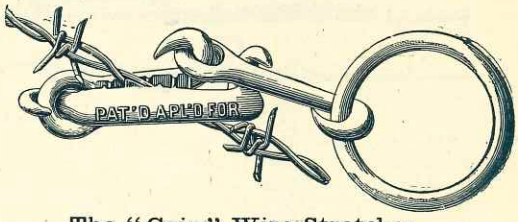


Portable Wood Hurdles.

The above are suitable for enclosing and dividing lots or plots to suit any requirements on a gentleman's country seat, or for farmers' use in general, they measure 8 feet 3 inches in length.

With 4-bars, suitable for horses and cows.....$80.00 per 100
With 5-bars, suitable for sheep..... 95.00 "
" 6-bars, " pigs.....115.00 "
4-bar Hurdle Gate, 10 ft. long..... 2.00 each.
5-bar " " " " ..... 2.50 "
6-bar " " " " ..... 2.80 "

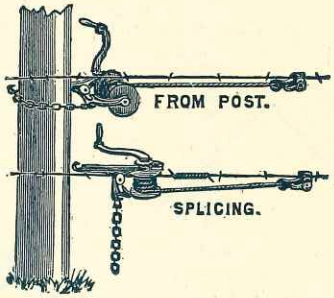
Special sizes and race track hurdles made to order.



The "Grip" Wire Stretcher.

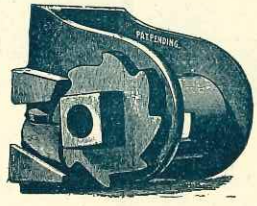
This is a simple device, it does not slip, and is warranted to hold firmly any kind of Fence Wire.

Price.....25c each.



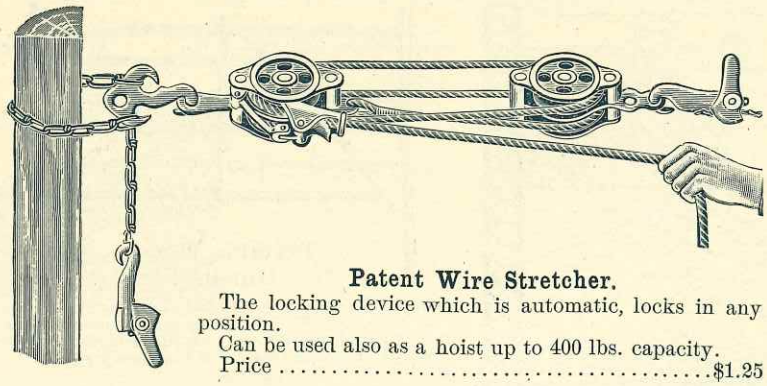
The "Rex" Wire Stretcher.

This is a small sized windlass having rope with Chain End which is wound up with crank on side. It holds the Wire thoroughly taut while splicing or driving staples. Price.....$1.25 each.



The "Imperial" Wire Fence Ratchet and Tightener.

The Wire can be stretched at any time, keeping it from sagging, breaking or becoming unsightly by turning the square part on the ratchet. Price.....12c each.

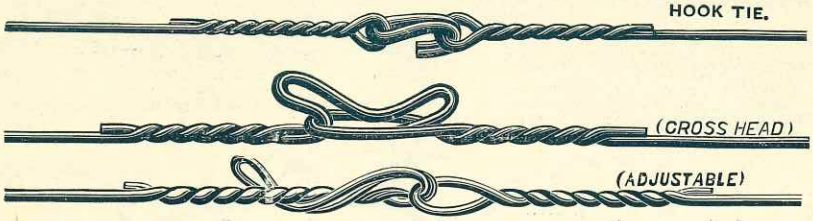


Patent Wire Stretcher.

The locking device which is automatic, locks in any position.

Can be used also as a hoist up to 400 lbs. capacity.

Price $1.25

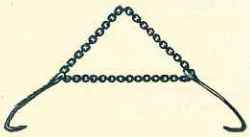


Steel Wire Baling Ties.

The above illustrates the styles in general use. The Hook Tie and Cross Head are for bales that are pressed uniform. The adjustable is well adapted for bales varying in size.

Nos. 14 and 15 gauge are for regular baling, the No. 16 for light work. Ties of other lengths and strength than those herein listed can be furnished. To get the length required add 3 in. to the measure around the bale when under pressure.

Length in Feet.	No. 16 Wire. 250 Ties in Each Bundle.	No. 15 Wire. 250 Ties in Each Bundle.	No. 14 Wire. 250 Ties in Each Bundle.
6½	$3.46	$3.55	$4.41
6¾	3.56	3.67	4.56
7	3.64	3.79	4.71
7¼	3.74	3.91	4.86
7½	3.82	4.03	5.00
7¾	3.92	4.15	5.15
8	4.02	4.27	5.30
8¼	4.10	4.39	5.45
8½	4.20	4.51	5.60
8¾	4.30	4.63	5.74
9	4.38	4.75	5.88
9¼	4.48	4.87	6.03



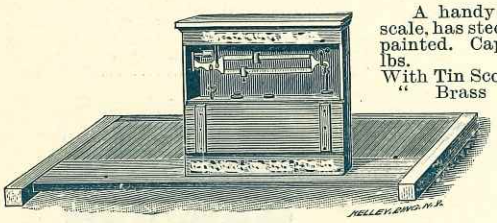
Hoisting Grapple.

With Single Claws.....$1.75
" Double " 2.50

Family Platform Scale.

A handy and serviceable scale, has steel bearings, nicely painted. Capacity ½ oz. to 240 lbs.

With Tin Scoop.....$6.00
" Brass " 8.00



U. S. Standard Scale.

Prices without Levers.	Single Beam.	Double Beam.
Capacity 3 ton Platform, 7 x 13 feet.....	$45.50	$47.50
" 3 " " 8 x 14 "	45.50	47.50
" 4 " " 8 x 14 "	50.50	52.50
" 5 " " 8 x 14 "	55.50	57.50
" 6 " " 8 x 15 "	62.50	67.50

Regular sizes furnished up to 15 tons, larger sizes to order. All metal parts complete and Beam Box furnished at above prices.

Wood Levers furnished if required.

For Rope Diam.	Single Each.	Double Each.
½"	52c	1.00
⅝"	55c	1.10
¾"	70c	1.20
⅞"	80c	1.45
1 "	1.00	1.75

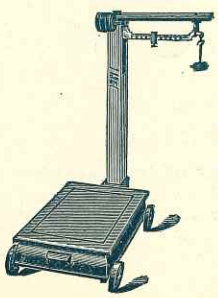
Tackle Block, Iron-bushed.

Patent Hoist.

It elevates, lowers, locks and unlocks with one rope only.

Capacity. in lbs.	One Man can lift.	Diam. of Pulley.	Price without Rope.
3000	700	5 in.	12.00
1800	500	5 "	10.00
1400	400	5 "	8.00
2800	700	4 "	8.00
1500	500	4 "	6.00
1200	350	4 "	6.00

Platform Scale on Wheels.



This scale combines good construction with low price. It is carefully adjusted by competent workmen, and is guaranteed U. S. standard.

Capacity.	Platform.	
600 lbs.	16x23 in...	$11.75
800 "	16x24 " ..	13.00
1000 "	17x24 " ..	14.25
1250 "	18x25 " ..	17.50

Force and Lift Pumps.

Fig. 650 represents a House Force Pump with Cock Spout and back outlet, No. 252 of which has brass upper and 3 inch brass-lined lower cylinders (tapped for 1¼ inch pipe), glass valve seat, etc.

Price $10.00

No. 251 has plain Syphon Spout.

Price $8.00

Fig. 638 (not illustrated) in appearance like Fig 650, is a House Lift Pump only with Syphon Spout, No. 245 of which is fitted with a 3 inch brass-lined cylinder (tapped for 1¼ inch pipe), patent drop valve and glass valve seat.

Price $6.00

Fig. 727 is a Pitcher Spout Lift Pump with 3 inch brass cylinder and patent glass valve seat.

Price $5.00

Fig. 510 illustrates a Lift Pump, No. 128½ f which has a 3 inch brass-lined cylinder four feet below the platform (tapped for 1¼ inch pipe), special sand plunger, glass valve seat and adjustable base and brace.

Price.....$8.00

Pump No. 128, fitted with Plain Valve Seat. Price 7.00

Fig. 522 represents a Submerged Cylinder, Deep Well Double Acting Force Pump, No. 86 of which is for Wells 10 to 75 feet deep, will go into a 4½ inch cased Well, has a 3 inch brass-lined lower cylinder with the latest improved glass valve seat and sand plunger (tapped for 1¼ inch pipe). The brass upper cylinder is 4½ feet below the platform. Tapped for 4½ inch pipe

Price.....$15.00

Fig. 690 (not illustrated) is a Single Acting Force Pump that will throw a continuous stream, has reversible spout, hose attachment and the latest improved patent glass valve seat—No. 202 of which has a 3 inch brass-lined cylinder, capped outside, 4 feet below the platform. Tapped for 1¼ inch pipe.

Price.....$10.00

Fig. 513 represents a Low Down Tank Double Acting Force Pump with 2 inch suction and discharge openings, has 5 inch stroke. Capacity 2 barrels per minute. Will throw water 60 feet from front of nozzle Is a first-class all-around general purpose pump and low priced.

Price as illustrated, with hose nipple, suction strainer and band No. 268.....$16.00

No. 268A. same with 15 feet 2-inch spiral wire suction hose 27.25

" 268B. " with 20 " " " " " " 31.00

For 10 feet 1-inch discharge hose and nozzle..... add 3.50

This page illustrates a few of the latest and most improved Force and Lift Pumps on the market. They are manufactured of the best materials with all the newest mechanical devices, and are perfect in every respect.

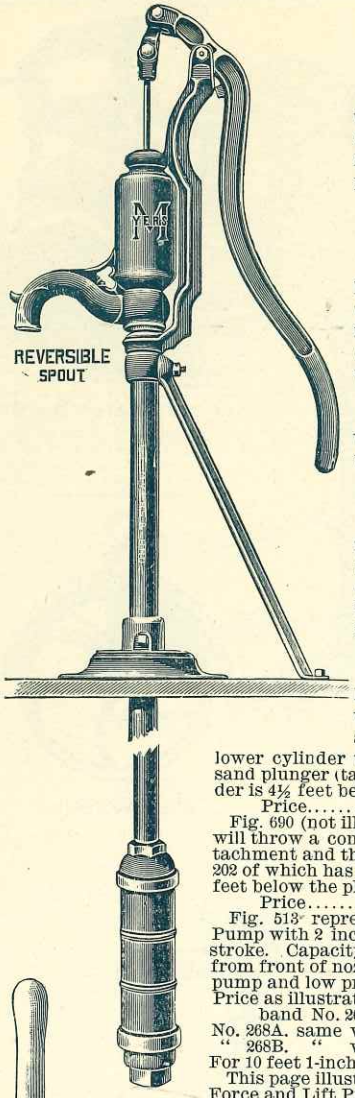


Fig. 510.

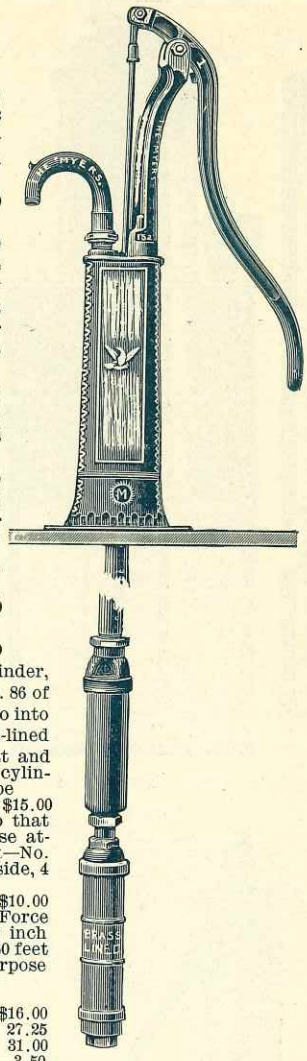


Fig. 522.

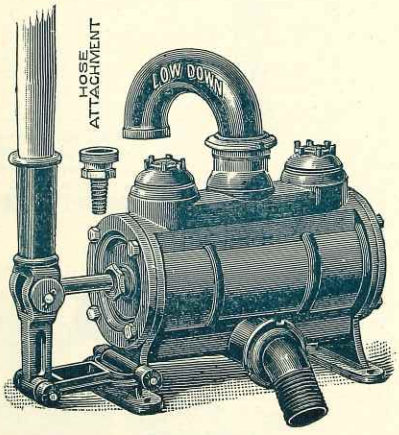


Fig. 513.

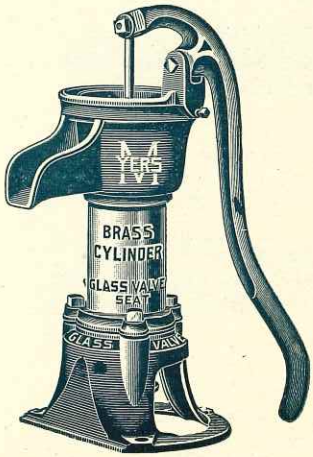


Fig. 727.

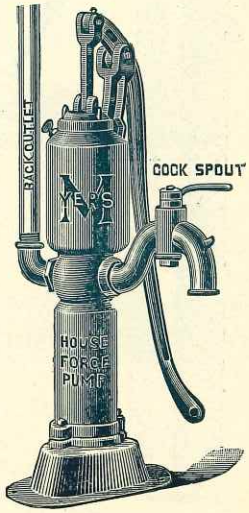
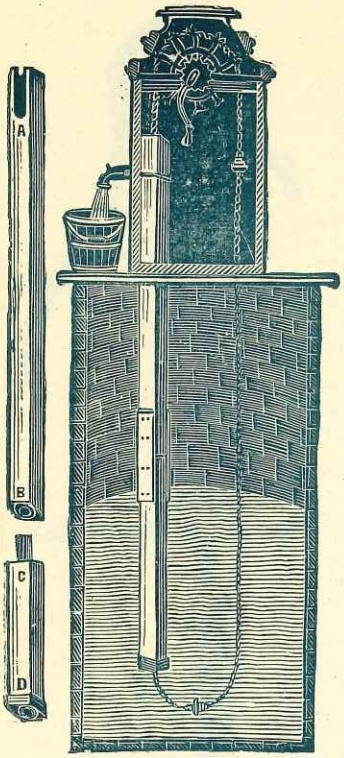


Fig. 650.

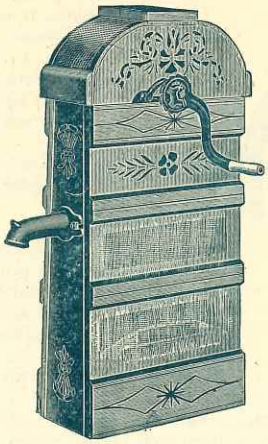


"Imperial" Rubber Bucket Pump.

Tubing Collar.

Rubber Bucket.

Chain.

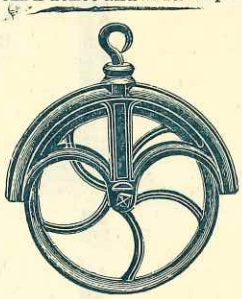


"Imperial" Curb.

Pump complete, suitable for 10 ft. well, $4.50
For each additional foot.....add .20
Curbs only with Fixtures..... 2.50
Galvanized Chain.....per ft., .05
Wood Tubing..... " .07
" " Collars.....each, .12
Rubber Buckets..... " .12
Fixtures, less Spouts.....per set, .80

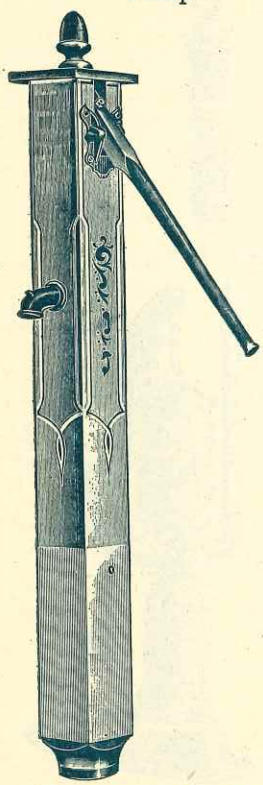
Old Time Water Drawer.

Open Curb, complete with valve Bottom Bucket and 20 ft. Rope $10.00
Closed Curb, complete with valve Bottom Bucket and 20 ft. Rope 12.00



Well Wheels.

10 inch.....$ .40 each.
12 " ..... .50 "
14 " ..... .80 "



"Imperial" Wood Pump.

"Imperial" Wood Pump.

These "Wood Pumps" are suitable for wells and cisterns. They are fitted to prevent freezing, and all the suction pipe is tested.

6 ft. pumps are suitable for wells up to 20 ft. deep
7 " " " " " " 23 " "
8 " " " " " " 25 " "
10 " " " " " " 27 " "
12 " " " " " " 29 " "

No. 1 House Pump, 6x6 in. Square.

6 ft. Unlined	$5.00	Porcelain Lined	$6.50
7 " "	5.50	" "	7.00
8 " "	6.00	" "	7.50
10 " "	7.00	" "	8.50
12 " "	8.00	" "	9.50

Stock Pumps, 7x7 in. Square.

6 ft. Porcelain Lined.....$7.80
7 " " " 8.50
8 " " " 9.10

Suction Pipe, 4x4 in., lengths under 12 ft.... .15
" " 12 ft. and over..... .17
Couplings with Bands.....each .40
Buckets or Plungers, 3½ in. diam..... " .80
" " 4 " " ..... " 1.00
" Leather, assorted.....per doz. 3.50
Leather Check Valves..... " 1.50
Handles .....each .30
Drive Well Connections for 1¼ in. or 1½ in. Iron Pipe.....each 1.00
Drive Well Points for 1¼ in. Iron Pipe " 1.30
" " " " 1½ " " " " 2.15
" " Cap. " 1¼ " " " " .35
" " " " 1½ " " " " .45

IRON PIPE.	Plain. 1¼ in.	Plain. 1½ in.	Galvanized. 1¼ in.	Galvanized. 1½ in.
Per foot.....	.22	.27	.36	.44
COUPLINGS,				
Ordinary...each	.14	.18	.21	.26
Patent..... "	.53	.63	1.05	1.25

Hand Suction Pump.

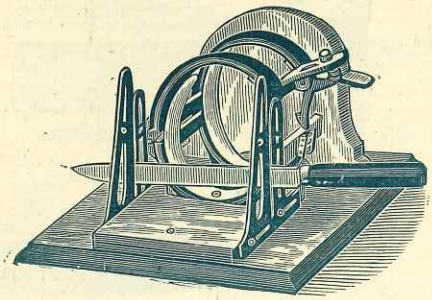
SIZE. Inside Diam.	PRICE. Per Foot.
1½ ins.	$ .55
2 "	.60
2½ "	.65
3 "	.70
3½ "	.75
4 "	.80
4½ "	.90
5 "	1.20

Less than 5 feet charged as 5 feet.

The entire suction barrel being constructed of but one piece of galvanized iron spiral tubing, without joints, the superiority of these pumps is apparent.

Drive Cap.

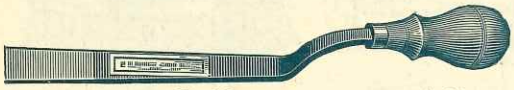
Drive Well Point.



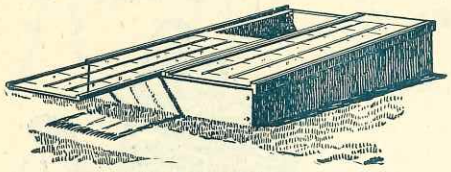
Asparagus Buncher.

This Buncher has a self-locking catch, which can be released instantly. Makes uniform sized bunches, and by its use Asparagus can be tied in compact bunches, which gives them a neat appearance for market.

Price.....$2.50



Asparagus Knife.....$ .30



Hot Bed Frame.

(Showing Two Hot Bed Sash).

The Hot Bed Frames are made for Regular 3 ft. x 6 ft Sash. Depth of Frame in front is 8 ins. and at back 16 ins.

The Frames can be readily taken down for convenient shipment or storage. Are carefully finished, and receive two coats of paint.

Prices.

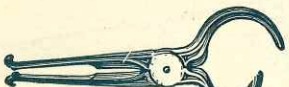
Frame for two 3 ft. x 6 ft. Sash (without Sash), finished and painted	$7.50
For each additional 3 ft. in length of painted Frame, add	1.50
Frame for two 3 ft. x 6 ft. Sash (without Sash), finished but unpainted	6.75
For each additional 3 ft. in length of unpainted Frame, add	1.40

Prices of Hot Bed Sash.

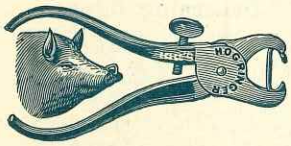
Sash 3 ft. x 6 ft. Finished, Glazed and Painted, complete to suit Frames	$2.75
Sash 3 ft. x 6 ft. Glazed and Primed, one coat	2.25

Hot Bed Mats (Straw).

	Each.	Per Doz.
3 ft. x 6 ft	$1.25	$14.00
6 ft. x 6 ft	2.00	22.00



Hog Tongs, 50c. each.



Hog Ringers, 25c. each.

Hog Rings, 15c. per 100.

No. 1.

No. 1 Extension Ladder.

Prices.

Sizes 20 to 32ft..$ .35 per ft.

" 34 to 42 ".. .40 "

In ordering allow for lap.

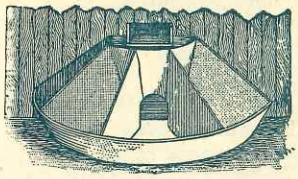
No. 2.

No. 2 Long Ladder.

Sizes 8 to 18 ft...$ .20 per ft.

" over 18 "... .25 "

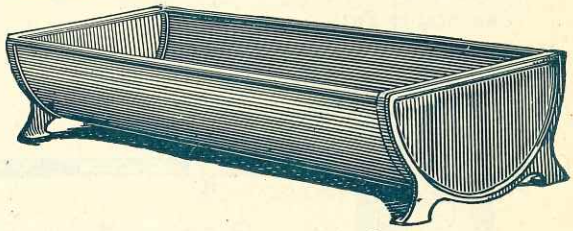
Over 24 ft. made to order.



Patent Hog Feeding Trough.

This Trough is made in the most approved shape; provides for each animal an equal share of food and freedom to eat. Not injured by freezing; keeps clean; saves food.

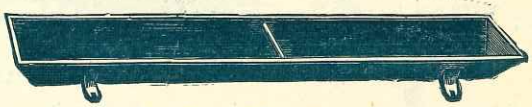
Price.....$5.00



Steel Stock Troughs.

No. 4.	20 in.	wide,	11 in.	deep	Price,	$1.15	per foot.
" 5.	18 "	"	10 "	"	"	1.00	"
" 6.	16 "	"	8 "	"	"	.90	"
" 7.	11 "	"	6 "	"	"	.60	"

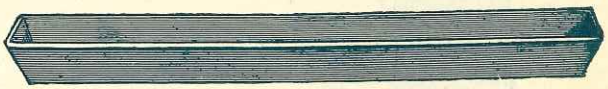
" 7 is for Hogs. Stock sizes run from 3 ft up to 20 ft.



Cast Iron Hog Troughs.

	Wide.	Wide.	Deep.	Price.
No. 1.	12 in at top,	2 in. at bottom,	6 in	$ .45 per foot.

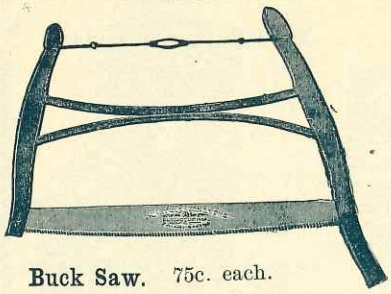
Made in lengths from 2 ft. up to 8 ft.



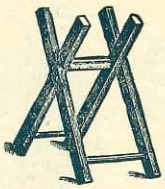
Cast Iron Stock Troughs.

	Wide.	Wide.	Deep.	Price.
No. 1.	13 in at top,	8 in at bottom,	8 in	$ .85 per foot.
" 2.	19 "	10 "	10 "	1.00 "
" 3.	21 "	15 "	11 "	1.35 "

Made in lengths from 3 ft. up to 10 ft.
Troughs 6 feet and under, 5 cts. per foot additional.

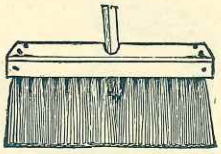


Buck Saw. 75c. each.



Saw Buck.
40c. each.

Claw Hammer.
No. 1.....$ .40
" 2..... .60

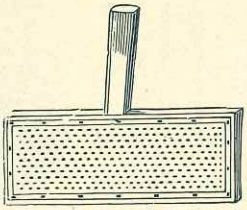


Rattan Brooms.

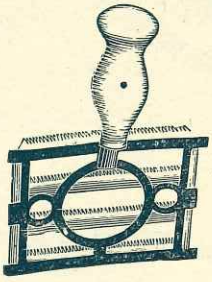
	Each.
14 in., 4 Row, Handled....	$ .50
16 " 6 " "	.60

Galvanized Iron Buckets.

10 qt.....	each,	$ .35
12 "	"	.40
14 "	"	.50



Cattle Cards.
Large.....per pair, $ .25

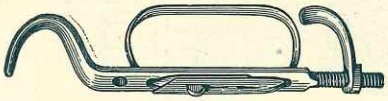


Curry Combs.
No. 1, $ .15 No. 2, $ .25

Horse Brushes.
All Bristle and Leather Back.
No. 1.....$1.00 No. 2.....$1.50

Dandy Brushes.
No. 1..... 35c. No. 2.....75c.

Oak Stable Pail.
60c. each.



Imperial Corn Husking Pin. 15c.

Silver Plated Milking Tube.

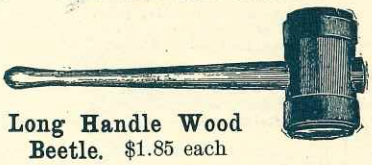
No. 1.	2½ inch.....	$ .30 each
" 2.	3 "	.35 "
" 3.	4 "	.40 "

Universal Corn Husker. 25c.

Oak Well Bucket
WITH GAL'D HOOPS.
No. 0.....$ .55 each.
" 1..... .65 "

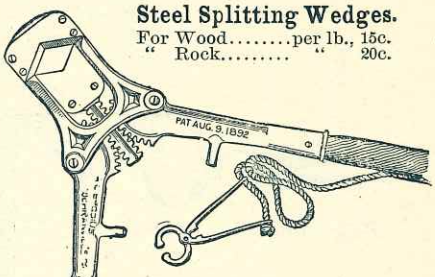
Coin Silver Milking Tubes.

1¾ inch.....	$ .50	each
2¼ "	.65	"
2¾ "	.80	"



Long Handle Wood Beetle. $1.85 each

Trocar or Bull Punch with Sheath.
$ .60 each.



Steel Splitting Wedges.
For Wood.....per lb., 15c.
" Rock..... " 20c.

Dehorning Clipper.
It does not crush the horn as so many inferior machines do, but makes a clean, clear cut, and is the most humane, rapid and durable Dehorner on the market.
Complete with Leader and Rope, Extra Blades and Screws...$12.00
Clippers only..... 10.00

Oak Well Bucket
WITH VALVE BOTTOM.
Plain.....$1.25 each.
With Chain .. 1.65 "

Wood Scoop.....$ .60

Hickory Stable Fork.

1st quality	Regular.....	$ .50	each
"	Heavy.....	.60	"
"	Burnt Back Tines....	.70	"

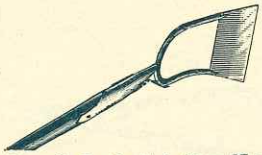
Hay Knife.

It is used in cutting hay in the stack or bale.
Price.....$1.00 English pattern, plain blade.....$ .75

Holder with five ¼ in. removable letters..... $1.25
Holder with five ½ in. removable letters..... 1.50
Extra letters ¼ in., 6c., ½ in., 10c. ea.

Corn Knife.

25 cents.



English Solid Scuffle Hoes.

5 in., handled.....$ .55
6 " " ..... .60
7 " " ..... .65
8 " " ..... .70
9 " " ..... .75
10 " " ..... .80

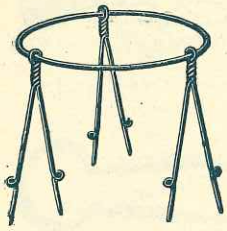
If without handles, deduct 10c. from above price.

Iron Dibber.

30 Cents.

Wood Handle Dibber.

30 Cents.



Ready for Use.

Not in Use.

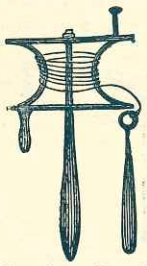
Self-Closing Tomato Support.

This is the simplest, most durable, easiest operated and cheapest support ever offered. The diameter is 18 ins., the legs being 21 ins. long.

Price, 15 cents each ; $1.50 per doz.

Solid Steel Shank Trowels.

6 in.....$ .30 7 in.....$ .35
Common Trowel, 6 in..... .07



Garden Reel.

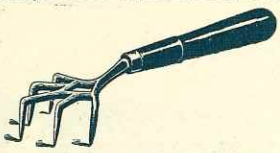
50 Cents.

Garden Line.

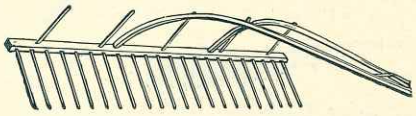
Best, pr. 100 ft. 50c.
Hemp " 100 " 20c.
" " 50 " 12c.

Solid Steel Socket Shank Trowels.

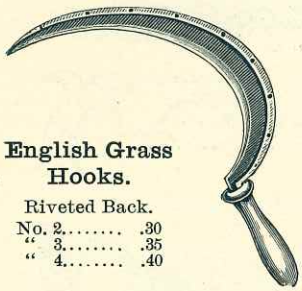
6 in., 45c.; 7 in. 50c.; 8 in. 60c.



Weeding Hook .10



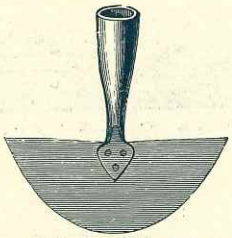
Gleaning Rake, $1.25



English Grass Hooks.

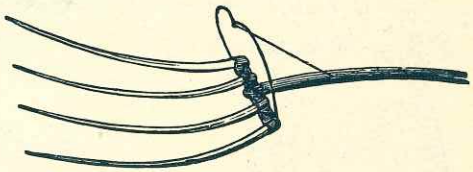
Riveted Back.

No. 2..... .30
" 3..... .35
" 4..... .40

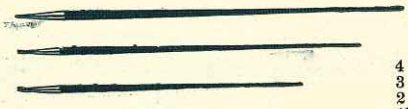


Edging Knives.

	9 in.	10 in.
Unhandled,	.40	.50
Handled,	.50	.60



Wood Tine Barley Fork, 75c.



Plant Stakes.

All Green.

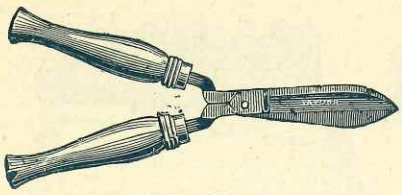
4 feet long....per dozen, $ .75
3 " " .... " " .50
2 " " .... " " .25
1½ " " .... " " .15

American Grass Hooks.

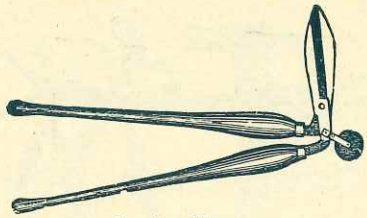
Serrated Tooth, .35
Best Solid Back, .40
Common Solid, Back,..... .20

Dahlia Poles. Green with White Tops.

	2 Feet.	2½ Feet.	3 Feet.	4 Feet.	5 Feet.	6 Feet.
Per Doezn.....	$ .35	$ .45	$ .50	$ .70	$ .85	$1.00
" 100.....	2.50	3.65	3.75	5.00	6.25	7.50

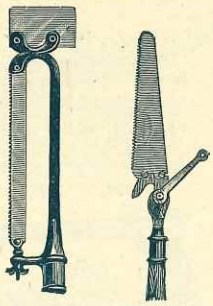


Hedge Shears.
Improved, 8 in., $1.45; 9 in., $1.70; 10 in., $1.95
Plain..... " 1.25; " 1.50; " 1.75

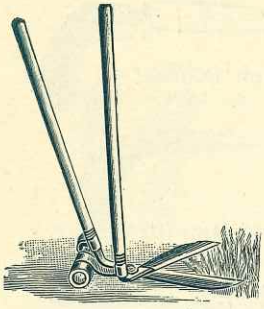


Border Shears.

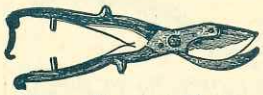
	8 in.	9 in.	10 in.
With Wheel	$2.25	$2.65	$3.00
Without "	2.00	2.25	2.65



Pruning Saw and Chisel. 80c.
Pruner and Saw. Plain...$1.50 Handled 1.75
Handled $1.00

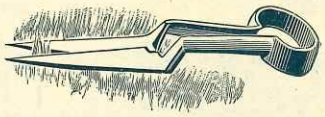


Lawn Shears. $3.00

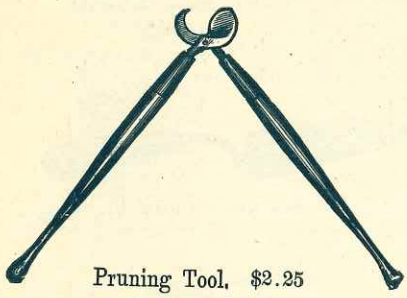


Climax Pruning Shears.
Flat or Spiral Spring.....35c.

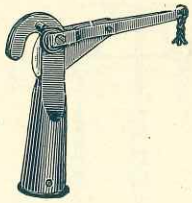
Solid Steel Pruning Shears.
Regular, 50c. Heavy, $1.50 Each



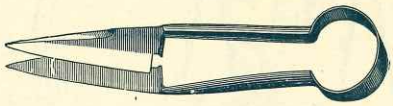
Grass Shears, Trowel Shape,
7 inch Polished Blade, 75c.



Pruning Tool. $2.25

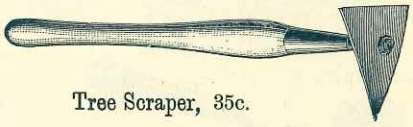


Pole Pruner.
Plain.....$1.25
Handled..... 1.50



Spring Grass Shears

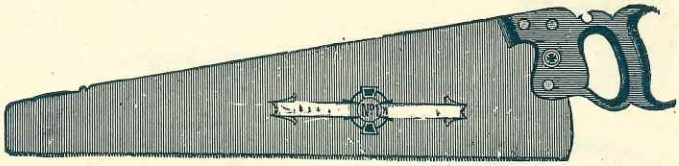
English,	7½	inch,	bent	blade,	(extra)....$1.10
American,	7	"	"	"	..... .75
German	5½	"	"	"	..... .30



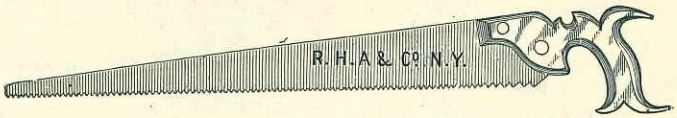
Tree Scraper, 35c.

Pruning Knife. $1.00

Budding Knife. $ .85



Hand Saw. 26 Inch. No. 1, $1.00; No. 2, 60c.

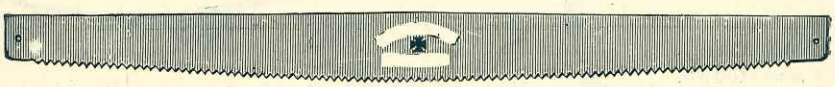


Pruning Saw. Single Edge. 18 inch, 70 cents; 22 inch, 85 cents.

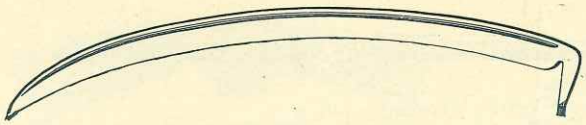
Pruning Saw. Double Edge. 18 inch, 75 cents; 22 inch, 90 cents.

Tree Pruner.

6 feet	$ .90
8 "	1.00
10 "	1.10
12 "	1.25
Ex. Knives	.20



Cross-Cut Saw, with Two Handles.
Regular Teeth, 4½ feet, $2.30; 5 feet, $2.50; 5½ feet, $2.75; 6 feet, $3.00
Patent " " 2.40; " 2.60; " 2.90; " 3.15

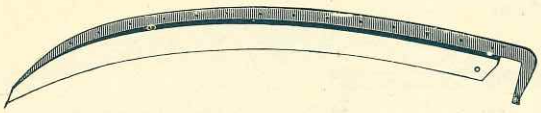


Solid Steel Grass Scythe.

This represents the New York pattern of Grass Scythe, made of the best silver steel, nicely tempered and polished, also ground and set, ready for use in lengths from 30 to 40 inch.
Price, 30 and 32 in., 60c.; 34 and 36 in., 65c.; 38 and 40 in., 70c.

The "New" Brooks Grass Scythe.

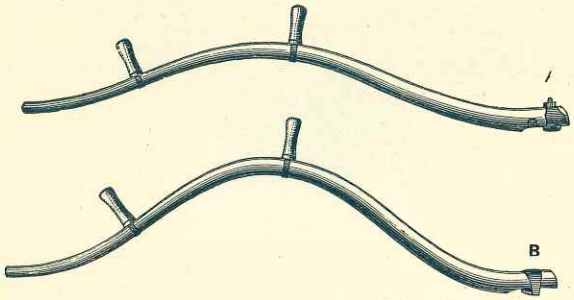
The newly invented strengthening ribs combine lightness with stiffness. Best steel, careful oil temper.
Price, 30 and 32 in., 75c.; 34 and 36 in., 80c.; 38 and 40 in., 90c.



Riveted Back English Lawn Scythe.

The English Lawn Scythe has a very thin steel blade, riveted to a strong iron back.

Length	30 in.	32 in.	34 in.	36 in.	38 in.
Price	$1.00	1.10	1.20	1.30	1.40 each.



Scythe Snaths or Handles.

These are the styles used for Grass, Lawn and Bush Scythes. A, is a Patent Snath and has a loop fastening, with nut for tightening up. B, has a single ring, with wedge fastening. This same style is also made heavier, having two rings suitable for Bush and Weed Scythes.

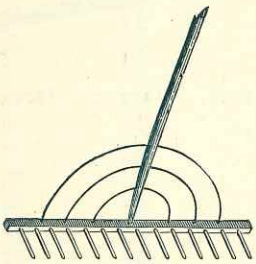
Price, Patent Snath .....75c. each.
" Single Ring Snath.....65c. "
" Double " Bush Snath.....75c. "

Scythe Stones.

English Round Tapering, 15c. each
American Oval .....10c. "
" Flat..... 8c. "

"Automatic" Wood Lawn Rake.

A backward motion of the rake from the operator will discharge the rakings, saving the annoyance of having to clean the teeth with the fingers.
Price.....85c. each.



Wood Hand Rakes.

The heads and teeth are of hickory, the handles of ash.

Extra	3	Bow	Lawn	Rakes,	24	Teeth.....	35c. each.
No. 1	3	"	Hay	"	14	"	30c. "
" 2	2	"	"	"	12	"	25c. "
" 3	2	"	"	"	12	"	20c. "

Thrashing Flail.

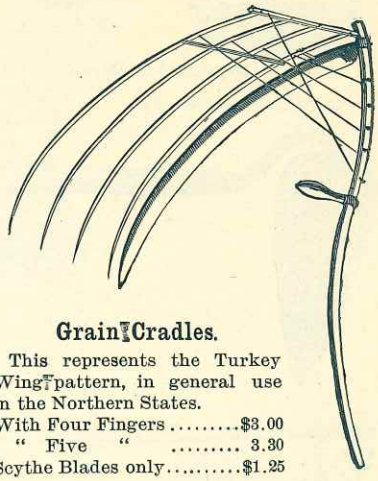
65c. each.

Bush & Weed Scythe

These Scythes are made of cast steel, with blades wide and heavy for rough work.
The "Bush" varies in length from 16 to 24 in
" "Weed" " " " 24 to 30 "
Price, Bush.....50c. each.
" Weed.....55c. "

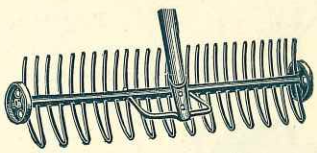
Scythe Sharpening Rifle.

Triple Coat, 7c. each; 75c. per doz.



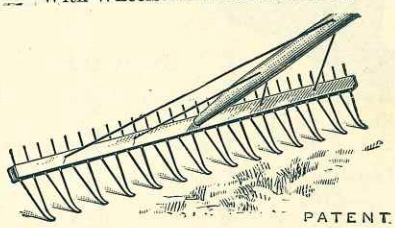
Grain Cradles.

This represents the Turkey Wing pattern, in general use in the Northern States.
With Four Fingers $3.00
" Five " 3.30
Scythe Blades only.....$1.25



Steel Lawn Rake.

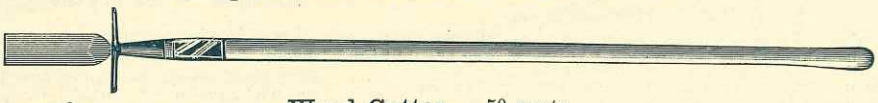
With Wheels.....75c.



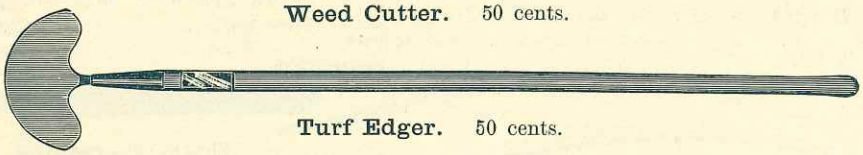
"Coldwell" Lawn Rake.

For scarifying and cultivating Lawns. This enables the grass to attain a more healthy growth and be in better condition to keep fresh and green throughout the summer.
Price ....$ .65

Long Handled Weeding Gouge. 40 cents.

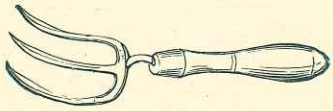


Weed Cutter. 50 cents.



Turf Edger. 50 cents.

"Imperial" Weeding Gouge. 50 cents.



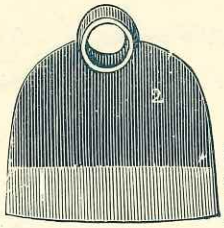
Weeding Fork.

No. 1. 10c. No. 2. 15c.

Bayonet Hoe.

For opening drills and working between narrow rows.

40 cents.

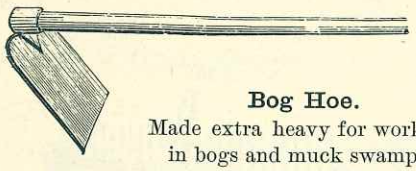


Planters' Hoes.

Made in Five Sizes.

7 to 9 inches.

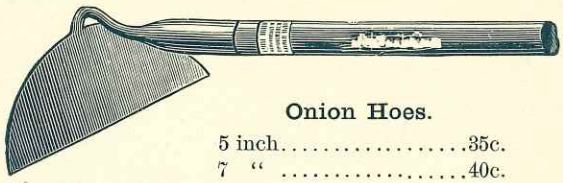
7½ inch.....40c.
8½ " .....45c.
Handles.....15c.



Bog Hoe.

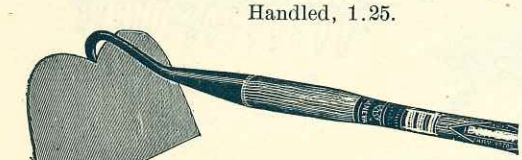
Made extra heavy for working in bogs and muck swamps.

Handled, 1.25.



Onion Hoes.

5 inch.....35c.
7 " .....40c.

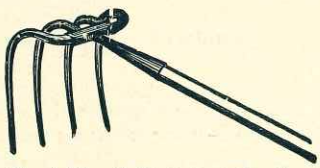


Field Hoes.

Made in five sizes. Blades 6, 6½, 7, 7½ and 8 ins.
Shank Handle.....35c.
Socket Handle.....40c.
Ladies' Hoe, 5 inch Blade.....30c.
Street Hoe, 10 " " .....65c.

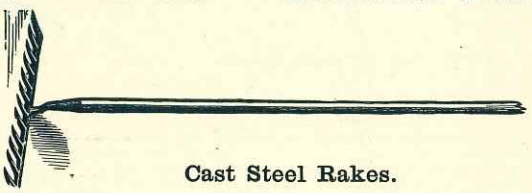
The "Warren" Hoes.

No. 19. Garden size.....50c
" 20. Field " 55c



Cast Steel Potato Hooks.

With 4 Prongs.....55c.
" 5 " .....65c.
" 6 " .....70c.
4 Prong Manure Drag.....60c.



Cast Steel Rakes.

With	8	10	12	14	16	18	20	Teeth.
Regular	35c.	40c.	45c.	50c.	55c.	60c.	65c.	
Gravel			45c.	50c.	55c.			

Ballast, Heavy, 14 Teeth.....75c.
Rake and Hoe combined, 4 Teeth.....40c.
" " " 6 " .....50c.

AXE MATTOCKS.

Price with handle.....90c. each.

PICK MATTOCKS.

Price with handle.....90c. each

RAILROAD PICKS.

	5 lbs.	6 lbs.	7 lbs.	8 lbs.	9 lbs.
With handles	65c.	70c.	75c.	80c.	85c. each

Axe Handle Bush Hooks.

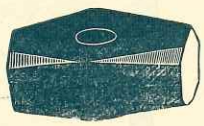
$1.10 each.

Long Handle Bush Hooks.

$7.40 each.

Steel Stone Sledges.

5 to 25 lbs., 10c. per lb.

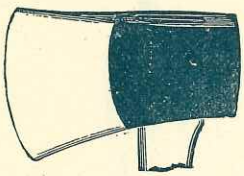


Steel Striking Hammers.

Under 5 lbs.,.....12c. per lb.
5 lbs. and over.....10c. "

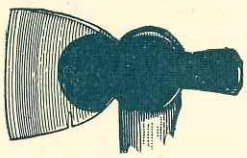
HAND DRILLING HAMMERS.

Under 3 lbs.....14c. per lb.
3 to 5 lbs.....13c. "



Axes.

	Handled.	Unhandled.
3 to 3½ lbs....	$ .80	$ .60
3¾ to 4¾ "	.90	.70
5 to 6 "	1.00	.80



Hatchets.

Shingling... 50c.
Broad .....80c.

CRUB HOES.

Handled, 70c.

Ferrules.

Plain.....10c.
With caps.15c.

Steel Crow Bars.

Wedge Point, 10 to 24 lbs., 7c. per lb.

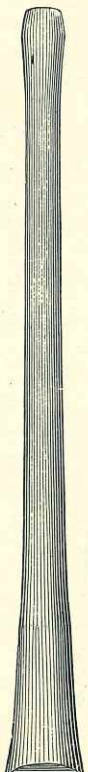
Square Pounder.

$1.25 Each.

Round Pounder.

$1.10 Each.

Hickory Axe Handles.

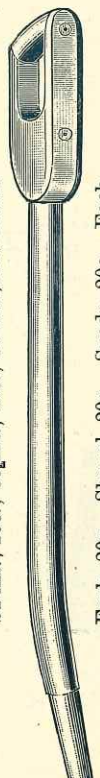


30 to 36 ins. Long, 17c. Each.

Hickory Pick Handles.

36 ins. Long, 17c. Each.

Hickory Maul Handles.



24 ins., 10c.; 30 ins., 12c.; 36 ins., 15c. Each.

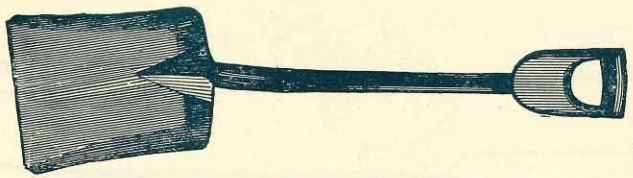
Fork, 20c. Shovel, 20c. Spade, 20c. Each.

Ash Fork Handles.

Fork Handles, 5 ft., 8c.; 5½ ft., 10c.; 6 ft., 12c.; 7 ft., 15c.; 8 ft., 20c. Each.
Rake " 5 " 8c.; 5½ " 9c.; 6 " 10c.

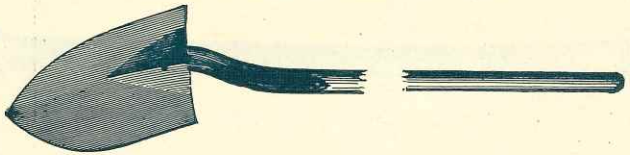
Ash Fork Handles.

D Handle
Plain Back Shovel.



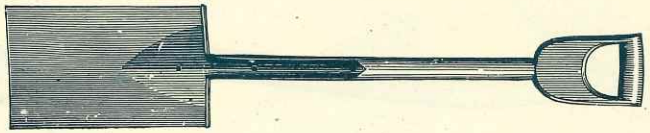
Cast Steel. Price, No. 2.. .75 No. 3.. .80 No. 4.. .85 each.
Crucible " " " 2..1.10 " 3..1.15 " 4..1.20 "
With Long Handles, same Price as D.

Long Handle
Plain Back Shovel.



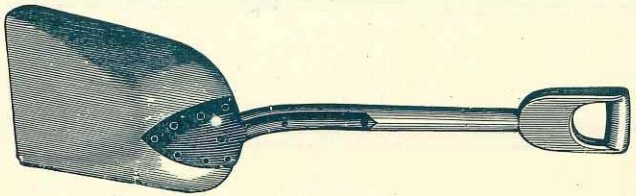
Cast Steel. Price, No. 2..... .75 No. 3..... .80 each.
Crucible " " " 2.....1.10 " 3.....1.15 "
With D Handles, same Price as Long.

D Handle
Plain Back Spade.



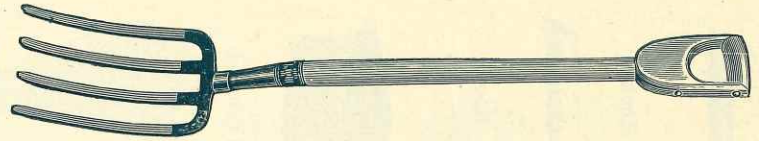
Cast Steel. Price, No. 2..... .75 each.
Crucible " " " 2.....1.10 "
With Long Handles, same Price as D.

Back Strap
Coal Scoop.



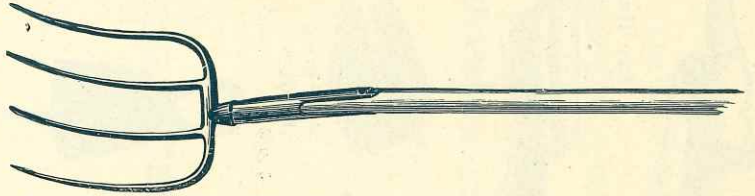
	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	
Cast Steel. Price.....	.90	.95	1.00	1.05	1.15	each.
Potato Scoops. Galvanized Steel Wire.....					1.50	"
" Malleable Iron.....					1.10	"

D Handle
Spading Fork.



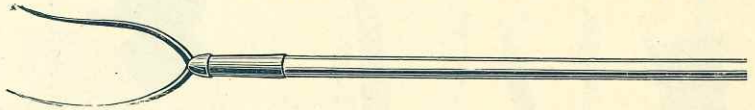
4 Tine, Light Plain Ferrule,.....75 Strapped Ferrule.....80 each.
4 " Medium Strapped Ferrule .85
4 " Heavy " " .90 With Long Handle....85 "
5 " " " " 1.15

Long Handle
Manure Fork.



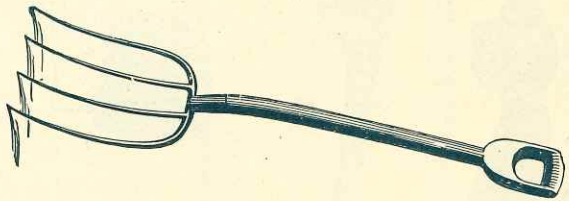
Long Handle, 4 Tine, Plain Ferrule, .55 Strapped Ferrule, .65 each.
" " 5 " Strapped " .95 6 Tine " " 1.10 "
D " 4 " Plain " .65 Strapped " .70 "
" " 5 " Strapped " 1.00 6 Tine " " 1.15 "

Hay Fork.



2 Tine, Handles, 4½ and 5 ft..... .35 5½ and 6 ft..... .40 each.
3 " " " " ..... .40 " " ..... .45 "

Heavy Manure Fork.



4 Tine, 15 inch, Oval, Strapped Ferrule..... .90 each.
5 " 15 " " " " ....1.15 "

IMPERIAL PATENT ICE PLOWS.

PRICES.

No. 40.	Four Tooth Plow Cuts 7 inches....	$16.50	No. 70.	Six Tooth Plow Cuts 8½ inches...	$23.00
No. 60.	Six " " " 7 "	22.00	No. 80.	Eight " " " 10 " ...	26.00

This Plow is especially designed to meet the demand for a cheap and efficient ice cutter for farmers and dairymen. It will cut from 20 to 40 tons an hour, cutting the ice blocks of uniform size, which saves much labor when packing. The Plow is about 4 ft. 6 in. in length, teeth and runners are adjustable and are made of the best steel. Teeth can be taken off, sharpened and adjusted to cut as before. They are firmly fastened to sides of cutter beams with bolts in slots, admitting of movement up or down. The plow is made very strong, each part strengthened to stand almost any strain, and is fitted with runners that steady the plow in cross plowing in very cold weather when the ice is brittle.

Superiority of the "IMPERIAL" Ice Plow.

It is the only plow that has a seat and that works with runners.

The extra weight of the rider holds the plow to its work and allows the horse to be hitched much closer to the plow.

It is the only plow that can be successfully worked by one person.

It is the only plow that has an adjustable tooth, which can be duplicated at small cost when broken by accident or bad usage.

The only plow that will mark the field first, and afterward do deep plowing without any change whatever.

How to adjust the Imperial Ice Plows.

Make the distance from bottom of beam to bottom of both rear runner and rear tooth ¼-inch more than the distance the plow is listed to cut; make the distance between beam and each preceding tooth ¼-inch less than the tooth following it, and the distance between beam and front runner ¼-inch less than distance between beam and front tooth; this lets each tooth into the ice ¼ inch. The hind runner should be the same depth as hind tooth, as runner has to run in bottom of groove made by last tooth; therefore the runners support the plow, and permit the cutting blades to cut into the ice only to a depth equal to the difference between the depth of runners.

PLOWS ARE SHIPPED PROPERLY ADJUSTED FOR WORK.

The adjustment is as follows, all measurements being from bottom of beam, and the same for both sides of the plow.

Adjustment for the No. 40 Plow.—To bottom of front runner 6¾ ins., to point of front tooth 7 ins., to point of hind tooth 7¼ ins., to bottom of hind runner 7¼ ins.

Adjustment for No. 60 Plow.—To bottom of front runner 6½ ins., to point of front tooth 6¾ ins., second tooth 7 ins., hind tooth 7¼ ins., and to bottom of hind runner 7¼ ins.

Adjustment for No. 70 Plow.—To bottom of front runner 8 ins., to point of front tooth 8¼ ins., to second tooth 8½ ins., to hind tooth 8¾ ins., and to bottom of hind runner 8¾ ins.

Adjustment for No. 80 Plow.—To bottom of front runner 9¼ ins., to point of front tooth 9½ ins., second tooth 9¾ ins., third tooth 10 ins., hind tooth 10¼ ins., and hind runner 10¼ ins.

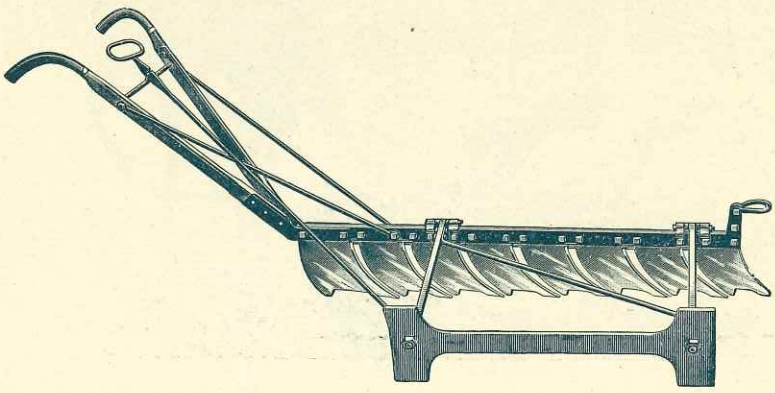
The No. 40 Plow cuts four widths, 16, 19, 23½ and 27 ins.

The No. 60, 70 and 80 cut five widths, 16, 19, 22, 25 and 28 ins.

When turning the plow at the end of the ice field, care should be taken to lift handles and swing around on the front runners and not pull plow sideways on the teeth.

ICE TOOLS.

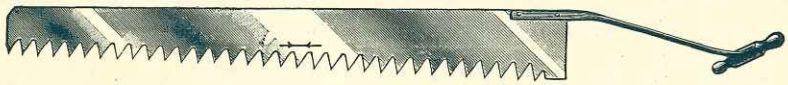
The tools represented in this circular comprise those now in general use for Ice Harvesting; all of standard manufacture and made of the best material.



Cast Steel Swing Guide Plows.

Size, 6 inch,	with	7	Cutting	Teeth		$45.50
" 7 "	"	7	"	"		47.50
" 8 "	"	7	"	"		51.50
" 9 "	"	7		"		54.50
" 10 "	"	6	"	"		56.50
" 12 "	"	5	"	"		61.50

We can furnish plows without Swing guides at $8.50 less than above prices, and Adjustable guide plows made to order.



Ice Saws.

4 Feet.....each. $4.50. 4½ Feet.....each, $4.75. 5 Feet.....each, $5.00

Splitting Fork.

Plain Handle.....$4.25
Ring " 4.60

3 Tine Fork Bar.

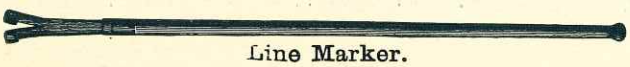
Plain Handle.....$4.00
Ring " 4.35

4 Tine Fork Bar.

Ring Handle.....$4.60
Plain " 4.25

Splitting Chisel.

Plain Handle.....$2.25
Ring " 2.50



Line Marker.

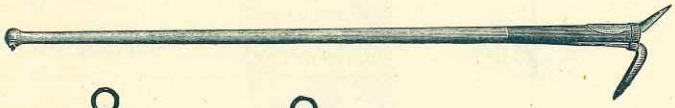
..... $0.90

ICE TOOLS.

Bar Chisel $3.25

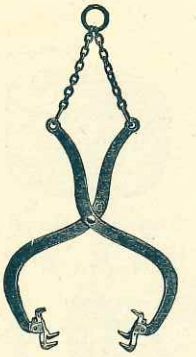
Socket Chisel.....$3.25

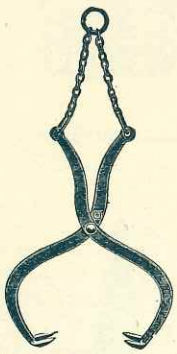
Breaking Bar.....$3.25



Ice Hooks.

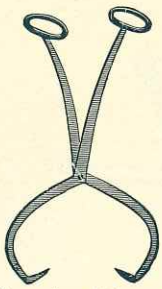
4 & 4½	Ft.	Handle,	$ 9.25 per doz.
5	"	"	9.50 "
6	"	"	10.00 "
8	"	"	11.25 "
10	"	"	12.50 "
12	"	"	14.00 "
15	"	"	15.50 "





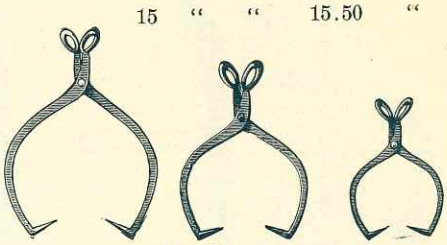
Hoisting Tongs.

Adjustable Claws, $6.00
Double Claws, $4.50
Single " 3.50



Stowing Tongs.

$1.75

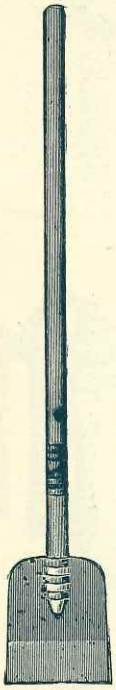


Hand Tongs.

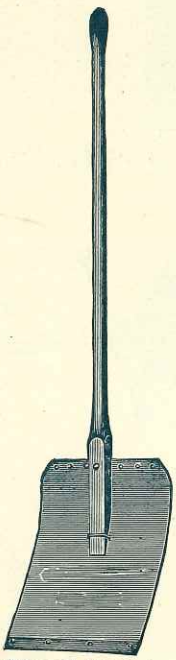
Spans, 24 in. $17.00 doz.
Spans, 16½ in. $15.00 doz.
Spans, 14½ in. $14.00 doz.

Ice Shaver.....$2.25

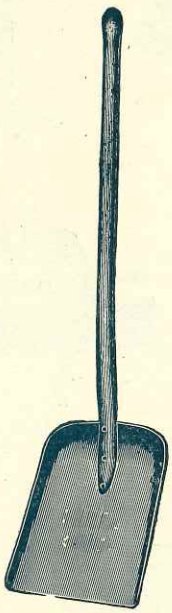
Ice Axe.....$1.50



Ice Chopper.
40c.

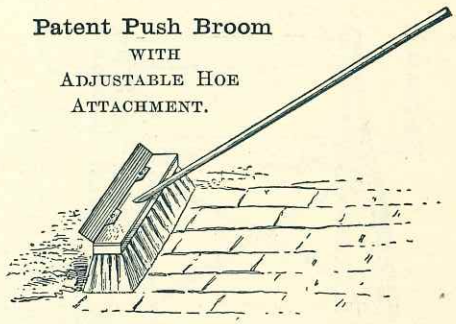


Wood Snow Shovel.
Long Handle, 25c.
D " 30c.



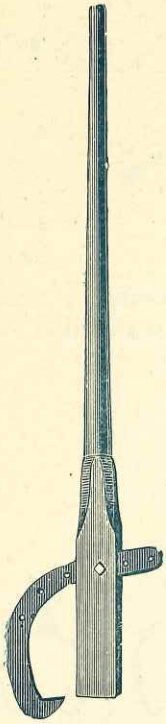
Steel Snow Shovel.
Long Handle, 40c.
D " 45c.

Patent Push Broom
WITH
ADJUSTABLE HOE
ATTACHMENT.

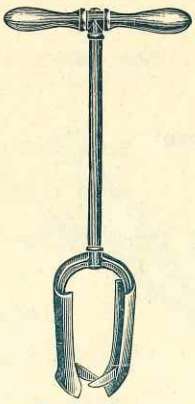


This is the only Push Broom with a Scraper Hoe Attachment suitable for Street, Stable, Factory or Lawn. It can be used to push, pull, chip or dig to the width of the entire broom and is unexcelled as an implement for removing Snow and Ice from sidewalks and roadways.

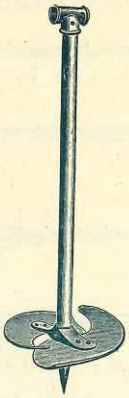
16 inch, 85c. each.



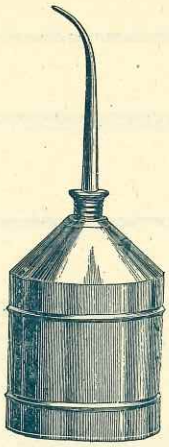
Cant Hook.
$2.50.



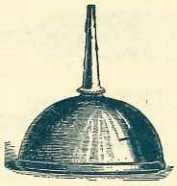
Well Digger.
6 inch.....$2.35
8 " 2.50
10 " 3.00



Post Hole Auger.
6 inch.....$1.50
8 " 1.75

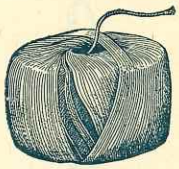


Machine Oiler.
20c.

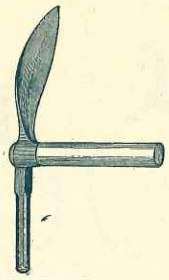


Zinc Oiler.
No. 1.....10c.
" 2.....15c.

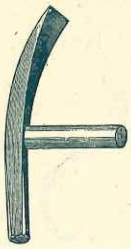
Machine Oil.
One gallon cans, $0.60
Five " " 2.50



Sisal and Manila Binding Twine.

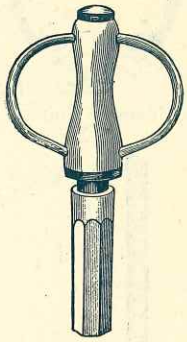


Cobble Hammer.
$3.00.



Belgian Hammer.
$3.00.

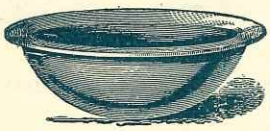
Cobble Rammer.
$7.00.



Belgian Rammer.
$11.00.

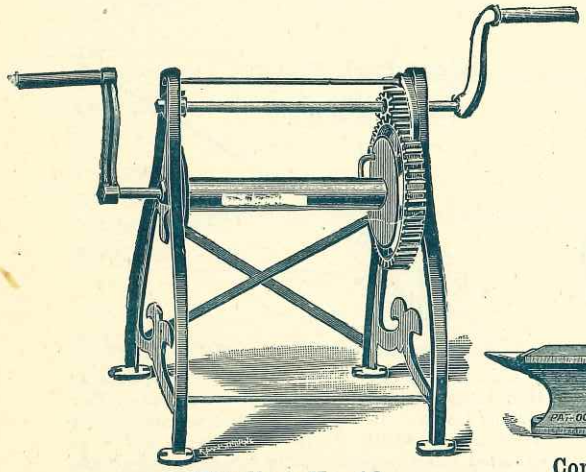
Agricultural Wrenches.

6 inch.....	55c.		
8 "	60c.		
10 "	75c.		
12 "	85c.		

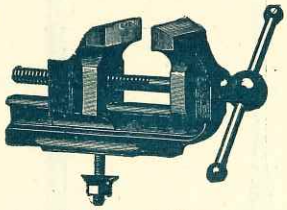


Sugar Pans.

16 galls.....$5.00		50 galls...$13.00	
20 " 6.00		60 " ... 15.00	
25 " 7.00		80 " ... 20.00	
30 " 8.00		100 " ... 25.00	
40 " 10.00		150 " ... 38.00	

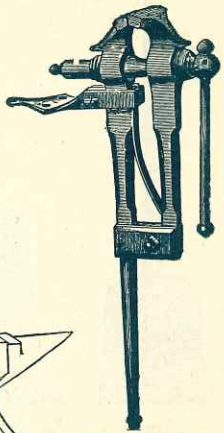


Windlass No. 12.
Drum. 20 in. long. Stands 32 in. high.
Weight, 135 lbs. Price, $15.50.
Can be used with single or double gear.



Farmers' Vise.

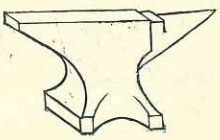
3½	in. Jaw,	opens	4	ins.	$3.00
4	"	"	5	"	4.50
4½	"	"	6	"	6.75



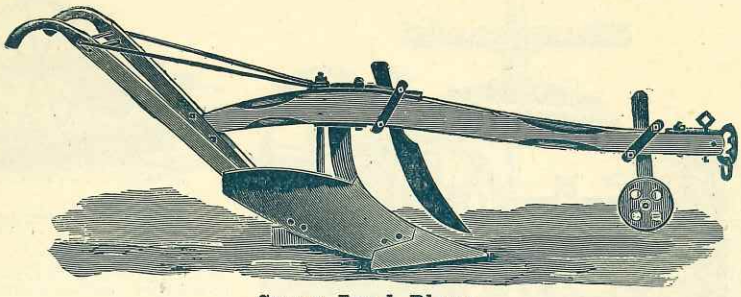
Blacksmiths' Vise.

No. 40.....	$9.00
" 50.....	10.00
" 65.....	12.00
" 85.....	16.00

Combined Anvil and Vise.
$8.00.



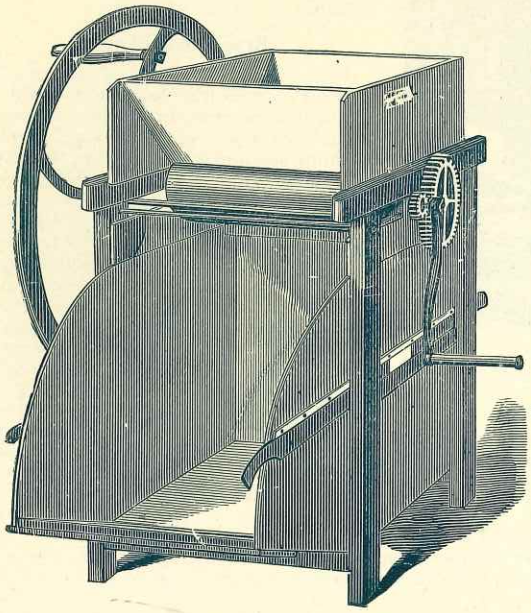
Blacksmiths' Anvil.
85 pounds and up.
Per lb....10c.



Sugar Land Plows.

The above represents a strong and heavily built breaking up plow with all the plowing parts of steel. Constructed specially for use on Sugar Plantations, principally in Cuba and the West Indies.

					Stationary.	Expanding.
No. 1 as illustrated, cuts	10	inches		No. 0 Double Mould	$14.00	
" 2 "	10	"	18.00	" 1 " "	15.00	$21.00
" 3 "	11	"	20.00	" 2 " "	17 00	23.00
" 3½ "	11½	"	27.00	" 3 " "	19.00	26.00
" 4 "	12	"	29.00	" 4 " "	24.00	



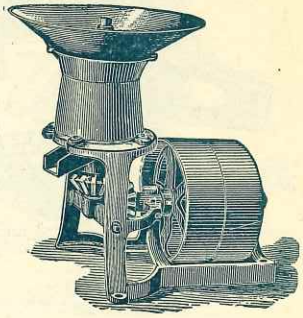
Roller Pulverizing Mill.

These Mills are for crushing and pulverizing Chemicals and any dry lumpy materials to be reduced to a powder.

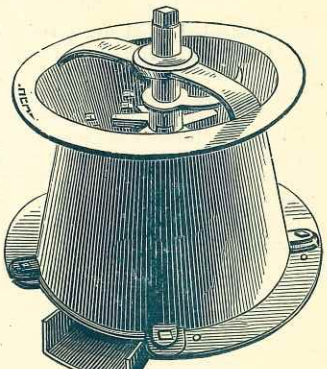
Price, No. 15	$20.00
" " 22	35.00
" " 22 with power pulley	38.50
" " 22 " fast and loose pulleys	41.00

Nos. 1 and 2 Grinding Mills

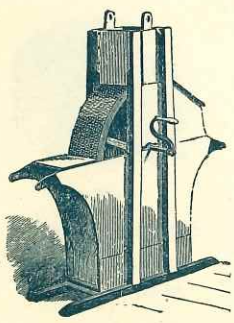
These cuts represent mills for grinding Bark, Bone, Chemicals, etc., and are equally adapted for cracking Corn with the cob for feeding stock. Capacity 30 to 60 bu. per hour. Speed 100 to 175 revolutions per minute. Power can be applied to the unmounted mill at either the upper or lower end of the spindle. The mounted mill is set on an iron frame, complete with hopper, fast and loose pulleys, etc., etc.



No. 1. Mounted Mill.
Price $90.00



No. 2. Unmounted Mill.
Price $25.00.



Yuca Grater.

This Grater is made in several sizes and is thoroughly adapted for grating Yuca. Mandioca, Cazve, Arrow Root and similar substances. It is light and portable.

Size with

2	ft. wheel	$22.00
2½	" "	25.50
3	" "	30.00
4	" "	40.00

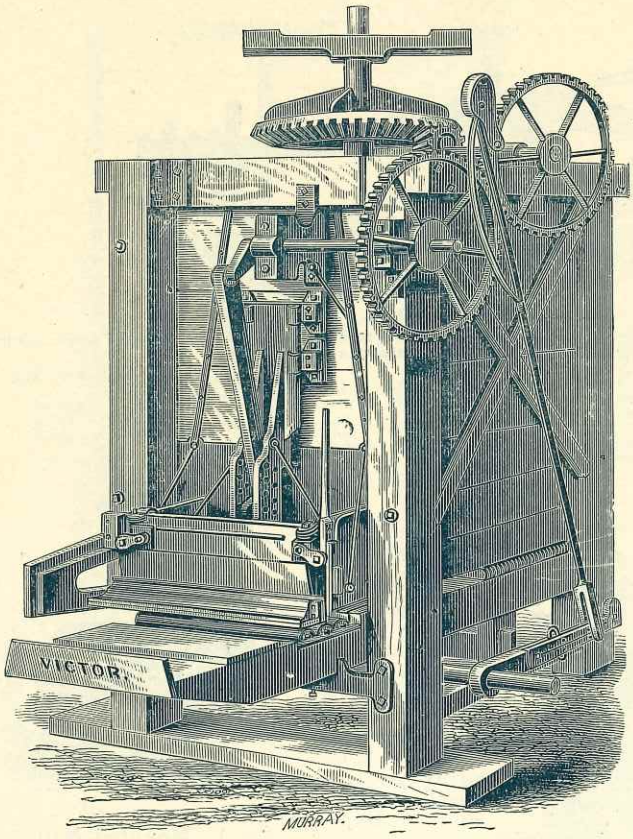
Pulley for power add $3.00.

Patent Tobacco Granulator.

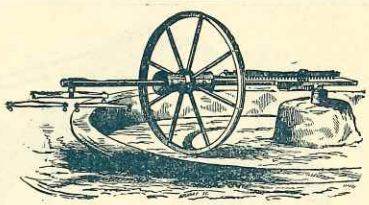
This Granulator cuts the Tobacco more uniformly than similar machines of other makes. The stems are flattened, broken and split at the same time. It is simple in construction and the workmanship perfect. Capacity 200 to 400 lbs. per day. Works leaves as well as stems.

Price.....$40.00
With sieving attachment.. 65.00

For Tobacco packing and baling presses see page 38.



IMPROVED AUTOMATIC HORSE-POWER BRICK MACHINE WITH SINGLE CRANK.



Clay Tempering Wheel.

This is used in the preparation of clay for making bricks, and for mixing mortar in large quantities; the substance to be worked being placed in a circular pit, as shown in the engraving, of 16 to 30 feet diameter.

SIZES.

Wheel 6 feet diam., with 3¼ in. steel shaft.....$228.00
Wheel 6 feet 6 in. diam., with 3½ in. steel shaft.....240.00
Whiffletrees extra..... 2.75

Brick Machine.

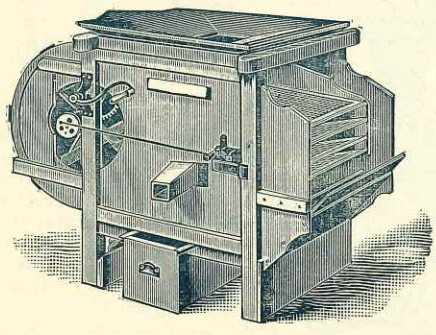
The cut represents our single crank Horse-Power Brick Machine with automatic arrangement for discharging the moulds after pressing. It is also made without the automatic device, the discharging being done by hand lever. The machine is all complete in itself with Mud Box, Shaft, Knives, Wipers, etc. Will thoroughly mix and temper the clay. With 2 horses or mules and 4 men with boys enough to sand the moulds and remove the bricks to the drying floor the machine will make about 25,000 bricks per day of 10 hours. 20 to 27 moulds are generally needed. The price of those are not included in price of machine. Weight about 5000 lbs

As illustrated, with automatic discharge.....$480.00
With double crank and automatic discharge..... 520.00
With hand lever discharge, instead of automatic discharge..... 385.00
With double crank and automatic discharge. arranged for steam or water power, weight about 7,200 lbs., capacity 30,000 bricks per day..... 600.00

We also build machines with capacities up to 50,000 bricks per day.

Hand machine, mud box and shaft, knives and wiper complete, capacity about 10,000 bricks per day 180.00
Hand machine for making front brick, capacity about 10,000 bricks per day, weight about 2000 lbs. 270.00
Brick moulds, each..... 3.50
Open Bottom Brick Barrow..... 6.00
Tight " " " 7.00
" " Spring Brick Barrows..... 10.00
Spring Brick Trucks..... 16.00

Packing for Export Shipment at cost.



Patent Coffee Cleaner and Sorter.

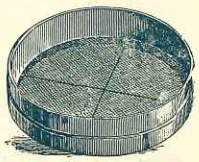
Patent Coffee Cleaner and Sorter.

In this Cleaner the berries are thrown indiscriminately into the hopper, and after passing through the requisite sieves and screens, issue at three different outlets, in distinct grades or sizes, and perfectly cleaned from all hullings and impurities. This machine according to size is capable of assorting and cleaning 30 to 50 bushels of coffee per hour. For export shipment they are knocked down and packed in cases.

No. 1. Has 5 sieves 20x16.....$30.00
" 2. " " 20x18..... 33.00
" 3. " " 20x20..... 35.00
" 4. " " 20x22..... 38.00
" 5. " " 20x24..... 41.00
" 6. " " 20x26..... 44.00

Can be arranged with pulley for power when so wanted at an extra charge.

In addition to the above we furnish mills for cleaning rice, cochineal, pimento, etc.



Coffee Screening Sieves.

Regular meshes $6.00 per dozen.

RELIABLE FERTILIZERS.

UNIVERSAL FERTILIZER.

This is one of the best grades of prepared manures, and is guaranteed to be thorough in composition. It contains 5 to 6 per cent. of ammonia, 4 to 5 per cent. of actual potash, and 8 to 9 per cent. of soluble phosphoric acid. It is in the form of fine powder, and is very dry and easily mixed with the soil. It may be freely sowed broadcast upon grass or growing crops with the best effect, using 200 to 500 lbs. to the acre. As its name implies, it can be used on all crops.

Price in bags, $36.00 per ton; in barrels, $38.00 per ton; per barrel, $5.00.

HIGH GRADE SUPERPHOSPATE.

This high grade fertilizer has the following guaranteed analysis: Ammonia, 3 to 4 per cent.; available phosphoric acid, 8 to 9 per cent.; actual potash, 2 to 3 per cent. It is a reliable and economical manure, applicable to all crops.

Price in bags, $30.00 per ton; in barrels, $32.00 per ton; per barrel, $4.25.

PURE GROUND BONE.

This Bone, which comes of medium fineness, has a percentage of 4 to 5 of ammonia, and 50 per cent. of bone phosphate. It is specially adapted for top dressing lawns and permanent laying down of pastures and hay fields, and for all general crops. It comes in bags of 200 lbs.

Price, $35.00 per ton; per bag, $4.00; per 100 lbs., $2.25.

PURE BONE FODDER.

This is fed to cows and other cattle having or threatened with bone sickness.

Price by the barrel, 3 cts. per lb.; 100 lb. bag, $4.00.

Corn Fertilizer.....Price in bags, per ton, $36.00

Potato Fertilizer..... " " " " " $36.00

Land Plaster or Gypsum.....per barrel $1.50

In addition to the above we furnish Unleached Canada Ashes, Tobacco Stems, Tobacco Dust, Etc.

MAPES MANURES.

Potato Manure. For Irish and sweet potatoes, also for asparagus, early vegetables, tomatoes, sugar beets, fruits, sorghum and sugar cane. Price per ton, $36.00; per bag, $4.00.

Corn Manure. This manure can be successfully used for sweet corn, fodder corn, Hungarian grass, millet, late turnips, cabbage and seeding to grass. Price per ton, $32 00; per bag, $3.50.

Complete Manure. "A" brand, for use in hill or drill on all crops, particularly in connection with farm manure, specially for beans, peas, buckwheat and turnips. Price per ton, $32.00; per bag, $3.50.

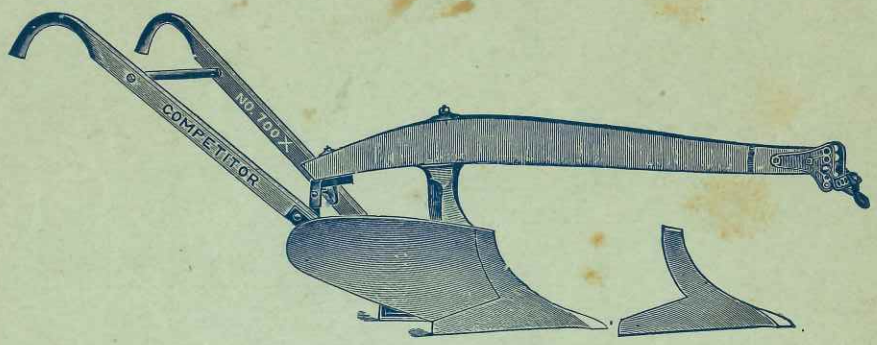
Complete Manure for Heavy Soils. For use in heavy or clay soils, for wheat, rye, oats, seeding grass, or spraying top dressing of meadows, pastures, etc. Price per ton, $37.00; per bag, $4.00.

Complete Manure for Average Soils. This is specially adapted to onions, potatoes, fruits, etc. Price per ton, $33.00; per bag, $3.75.

Complete Manure for Light Soils. This is specially applicable for garden truck and vegetables; to be sown broadcast. Price per ton, $39.00; per bag, $4.25.

Complete Manure for General Use. For use on all crops and all soils, with or without stable manure, used broadcast; if any in hills, use sparingly; special for oats, Hungarian grass, vegetables, lemons, tomatoes and seeding with or without grass. Price per ton, $34.00; per bag, $3.75.

Mapes Manures come in bags of 200 lbs., 10 to the ton.



E.P. Coby & Co's Stationers
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